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# 1st MARINE DIVISION (REIN), FMF



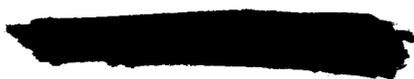
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## NUI MANG - NUI BA NA - CHARLIE RIDGE

### SPECIAL STUDY

PERIOD: 1 JAN TO 5 MAR 69 (inclusive)



4.



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CHARACTERISTICS OF AREA OF OPERATIONSECTION I - GENERAL

1. General. The area of operation is located in the central portion of I Corps Tactical Zone. It includes the eastern portion of Dai Loc District and the southwestern portion of Hieu Duc District. Consisting for the most part of steep mountainous terrain, covered with multi-layered canopies, the area is accessible only to foot or helicopter movement. The highest density of population is centered around Thuong Duc District Headquarters, near the confluence of the Vu Gia and Con Rivers. Routes of transportation are limited with National Highway #4 and the Vu Gia, Con and Yang Rivers being the major avenues.

SECTION II - GEOGRAPHY1. Climate and Weather Data Summary

(a) General. - The climate of the area of operation is monsoonal in nature. It is characterized by two major seasons, the southwest monsoon from approximately mid-May until late September, and the northeast monsoon from early November until mid-March. Separating these major seasons are two rather short transitional periods during which circulation becomes weak and indefinite. A monsoon is defined as a seasonal prevailing wind, therefore, the onset or recession times of a monsoon do not necessarily coincide with the beginning or ending of the cloudy seasons. Cloudiness and precipitation are dependent upon the surrounding terrain features, and the degree of exposure to the prevailing wind flow. The area of operation will be affected during March and April by the transitional period as the Northeast Monsoon ends and the Southwest Monsoon commences. Data contained herein are estimates of mean values over a period of years and are not to be construed as a forecast. There may be day to day, month to month and local variations from the mean values, particularly with cloud conditions and precipitation.

(b) Temperatures. - The warmest temperatures in this area occur from April to September. The coolest temperatures occur from December through February and temperatures in the 30's have probably occurred in the higher elevation. Temperature data for the operational area follows:

	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>
Record Maximum	103	105	102	105
Mean Maximum	81	83	91	92
Mean Monthly	77	80	83	83
Mean Minimum	70	73	76	77
Record Minimum	59	62	71	72

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(c) Humidity.- Early morning relative humidities are quite high, normally above 90 percent, in this area throughout the year. Afternoon humidities are also fairly high in all months except March and April. Data for the area of operation follows:

	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>
Mean Relative Humidity(%)	85	84	81	77

(d) Precipitation.- The rainy season begins in May and extends through December with maximum precipitation occurring in September, October, and November. Annual precipitation amounts over the area range from about 110 to 150 inches. Due to the rugged terrain within this area, significant deviations from the mean will occur. Precipitation from late March through November occurs primarily as showers, usually during afternoons and evenings. From late November through March, the most common precipitation form is steady rain or drizzle, usually at night or during the early mornings. Rainfall is heaviest and occurs most frequently on the exposed windward slopes of mountains. Daily rainfall in excess of 1 inch occurs one to six days at any one location during the rainy season and on a few fewer days during the other months. Thunderstorm activity is most frequent from March through October with maximum activity occurring in May. Thunderstorm frequency generally increases from east to west across the area. Thunderstorms frequently form along mountain ridges, and thunderstorm clouds often obscure ridges. Precipitation data for the area follows:

	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>
Highest Total (in)	5.7	7.6	16.6	20.9
Mean Monthly (in)	0.9	1.3	2.6	2.3
Lowest Total (in)	*	*	0	0.1
24 Hr Maximum (in)	5.4	6.0	14.3	13.1
Mean days w/Precipitation	4	5	8	8
Mean days w/Thunderstorms	1	5	11	9

Note: \* Less than .05 in.

(e) Surface Winds.- Low level winds are usually a reflection of the prevailing monsoon flow, being from a northerly to easterly direction during the ~~northwest~~ monsoon. However, wind directions and speeds are greatly affected by topography. Winds tend to parallel mountain ridges, hence being channeled into valleys. This channeling increases the speed of the wind in these valleys. Most of the winds in this area will be directly related to local topography. Sustained wind speeds in excess of 16 knots occur frequently during the height of the monsoon seasons, particularly in narrow valleys which are open to the prevailing wind. The rugged terrain also causes the winds to be quite gusty and winds in excess of 16 knots will be common during the afternoons. Winds also are significantly higher in the vicinity of thunderstorms.

Thunderstorms, when they occur, are much less than the ones that occur in the lowlands. The winds are also much less than the ones that occur in the lowlands.

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f. Effects of Weather on Ground/Air Operations. - Ground operations during this period are mainly affected by the increase in rainfall and temperature. The rain brings a deterioration in ground movement conditions and limitations on observation and control. The sudden thunderstorm activity of this period will cause flooding of streams and heavy rainfall on the windward slopes of the highground. Cloud cover from these storms and early morning fog will obscure the ridges and the low ground. A higher rate of heat casualties can be expected due to the increase in temperature combined with the humidity. Conversely, these conditions will have minor effects on guerrilla operations and the periods of reduced visibility will enhance his movement.

Air operations, including troop movement, tactical air support, and heliborne resupply will be restricted by the frequent periods of low ceiling, reduced visibility and rain. In March, air operations will be limited for numerous periods of several days by low ceilings and restricted visibility. In the latter part of the period, early morning cloudiness and fog will be fairly prevalent, but usually dissipates by 0900H to 1000H. Afternoon showers and thunderstorms accompanied by low cloud cover will also restrict operations in May and June. In addition, air operations will be hampered by surface winds which increase along the valley floor and above the forest canopy, especially during periods of thunderstorm activity.

## 2. Astronomical Data

- (a) Sunrise and Sunset Tables. - See Enclosure (1)
- (b) Illumination Tables. - See Enclosure (2)

## 3. Topography.

(a) General. - Principally, the area of interest is characterized by steep, rugged mountains. The Charlie Ridge complex situated in the southern portion of the operational area, the Ba Ho and Kui Hang Mountains located in the northeast and northwest respectively, and the high ground overlooking Thung Duc Valley are the dominant terrain features. These features rise sharply from adjacent river valleys with rough dissections scarring the densely vegetated slopes. In sharp contrast to the otherwise mountainous terrain is Happy Valley, which is centrally located in the operational area.

(b) Elevation and Relief - Local relief generally ranges between 500 and 1000 meters. The maximum elevation within the area is 1,712 meters at coordinates (C 0277). The minimum elevation is 10 meters in the alluvial plain situated in the southeast.

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c. Land Use. Agriculturally productive land is mainly situated in the Thuong Duc Valley and Happy Valley, though the latter has been for the most part abandoned due to the enemy activity in that area. Rice is the major crop but there is some diversity throughout the operational area with corn, potatoes, peanuts, squash, melons and pineapple.

d. Drainage. The rivers providing the principle drainage media for the operational area are the Vu Gia, Con and Yang Rivers. All of the rivers in the area flow toward the South China Sea. In their upper courses, the waterways flow swiftly over steep and irregular gradients. Further downstream, gradients and water velocities decrease. The combination of steep hydraulic gradients and shallow soils will cause runoff to be very rapid during periods of heavy rainfall (May through November) and flash flooding is likely to occur in the upper courses of streams. The entire area may be classified as well-drained, although small, naturally occurring areas of impeded drainage may be found locally throughout the river valleys. The low lying alluvial soils in the south-central portion of the area, near the junction of the Vu Gia and the Con Rivers, are poorly drained and will be inundated during most of the wet season.

(1) Rivers, Streams, Lakes, Swamps, Watersheds. Waterway density in this area is light to moderate with two primary and various secondary waterways traversing the area. The primary waterways of interest are the Vu Gia and Con Rivers. Secondary waterways of lesser significance in the operational area are the Yang River, Tam Khong, Tam Vao, Lo Dong, Thuy Loan, Tam Na and Tam Lao.

(2) The Vu Gia River flows in a east-northeasterly direction and is the southern boundary of the study area. The predominant waterway in the area, the Vu Gia River, varies in width from 25 to 250 meters. Bottom materials vary from silty sand to poorly graded gravel, while bank materials vary from silty sand to silty clay. The Con River varies in width from 50 to 130 meters and has bottom materials of silty sand, silt, silty clay and poorly graded gravel. Bank materials consist of silty sand, silt and silty clay. The secondary waterways in the area all have the same general characteristics. They vary in width from 5 to 30 meters and have generally steep banks. Bottom and bank materials consist of silty sand, silt and silty clay.

e. Geological Basis.

(1) Type Soils. Soils of this area exhibit residual properties of the geology and the topography. There are alluvial soils in the south-east and southcentral along the Vu Gia River and mountainous soils over the remainder of the area. The soils in the hills and mountains are further delineated by the topography on which they are located.

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(a) Alluvial Soil. The soils in the south east along the Vu Gia River are sand-silt-clay complexes formed from residual soils of the watershed area. The soil composition varies and is found in a complicated sequence which does not lend itself to a specific description.

(b) Rolling Topography. The areas in the vicinity of ZC 120-670 are of consolidated material. Under gray-brown sandy to loamy topsoils, a layer of red or yellow clay occurs. Much of the area has been favorable to the development of laterite (a red, porous deposit containing large amounts of aluminum and ferric hydroxides formed by the decomposition of certain rocks) which occurs below the clay accumulation. The depth of the soil varies, but normally it grades into weathered rock within several meters in depth. These soils dry out extensively during the dry season and are very susceptible to erosion.

(c) Mountainous Soils. The soils covering the hills and mountains in the area of interest is a sandy, stony soil that is shallow, particularly on the steeper slopes. This soil is best described as gravely sand-silt-clay complexes. The amount of fine particles of silt and clay increases as slopes decrease with maximum occurrence in the stream valleys. The depth of the soil profile varies from 2 to 20 meters but locally it may be more shallow and exhibit rock outcrops.

(2) Rock Formations. Enclosure (3)

(a) General. In the northern third of the area of interest the bedrock consists of shale, limestone, marble, granite, schist and phyllite. It might be noted that the Ba Na Mountain, which is in the northern third of the area, is predominately composed of a granite composition closely associated with granite gneiss and mica schist. In the southern third the bedrock is composed of granite and alluvium.

(b) Granite. A very hard igneous rock with a specific gravity of about 2.7 granite is an excellent engineering material. In its unweathered state, it is non-porous and permeable. It can only occur as intrusions into metamorphic and sedimentary rock. It forms extensive areas of rugged, elevated, heavily forested topography broken by the characteristic criss-cross pattern of widely-spaced joints. It also forms some rounded, lower hills covered with brush and patches of trees.

(c) Phyllite. A fine grained rock formation, phyllite, which has been formed under heat and pressure, is dark gray in color, weathering to red. It is soft, crumbles easily, and has very little resistance to abrasion.

(d) Schist. Schist is formed by metamorphism of shale under greater temperature and pressure than phyllite. Biotite (black mica) is the predominant mineral in this schist. This schist also contains

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large, light-colored feldspar inclusions. Resistance to weathering and abrasion varies considerably, with a corresponding suitability for construction material.

(1) Limestone. Composed of calcium carbonate, limestone is formed in a shallow marine environment. It varies from soft to hard, and in this area it is suitable for construction purposes.

(2) Shale. Shale is a fine-grained sedimentary rock formed in a deep marine environment. It is soft, breaks easily and is unsuited for construction purposes.

(3) Forestation/Vegetation.

(a) General. Multi-canopied, dense undergrowth forest is the predominant vegetative type within the operational area. Brushwoods and single-canopy, light undergrowth forest are found within both the multi-canopied, dense undergrowth forest type and the single-canopied, light undergrowth forest type. Single crop rice is grown in most of the river valleys. Subsequent paragraphs refer to specific areas and are keyed to areas similarly depicted on enclosure (4).

(b) Area (A). From the start of the mountains to the boundary (QUAN DAI LOC), the terrain is fairly open on the high ground and fingers leading to high ground. Canopy is sparse, usually none at all. In the valleys, especially where there are streams, there is canopy of approximately 30-50 feet with a dense undergrowth. As would be expected, movement along the high ground is relatively easy, but approach from the draws upward is slow and difficult. There are numerous small animal trails along the ~~line~~ and along the indicated boundary lines. Movement along these is easy and usually unimpeded.

(c) Area (B). From this boundary line continuing north, the canopy starts (approximately 40-70 feet) with thick undergrowth consisting of mostly tangle vines, elephant grass, and small trees. Movement in this area is difficult and slow, and trails, even animal trails, are scarce. This terrain is very steep, making movement even more difficult. Water in the area is plentiful. This type of growth is indicative of the area up to the fringes of Happy Valley.

(d) Area (C). (Northwest of Charlie Ridge). On the valley floor the primary growth is elephant grass with small trees running throughout. Movement is easy to moderate depending on thickness of the elephant grass, which is as high as 12-15 feet in areas, especially near the streams in the valley itself. There are numerous deserted farms and some underground shelters in them. Bamboo fences still stand in the area, but are old and broken down, and do not hinder movement. There are also numerous trails on the valley floor, most of them overgrown with elephant grass. Water is plentiful in the valley itself. Moving Northward from

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the valley floor until the mountains begin, there are thin trees approximately 15-20 feet with sparse undergrowth under them. Movement through this area is relatively easy and unhindered.

(e) Area (C-1). This is high ground between two valleys, which is much the same as the high ground described on Charlie Ridge-50-70 feet canopy and thick undergrowth.

(f) Area (C-2). In the valleys below the NUI DA NHONG ridgeline in lower Bach Ma, the terrain is similar to that in Happy Valley.

(g) Area (D). In the WORTH RIDGE/SHERWOOD FOREST AREAS terrain is generally steep with 40-60 feet canopy and thick undergrowth. Patrols in this area have found movement very difficult. There are numerous small trails in the area, but they are usually overgrown. Water is fairly plentiful but many streams indicated on the map are dry.

(h) Area (E). On BACH MA map sheet, ridgeline NUI CA NHONG runs southwest to northeast from grid ZC 1073 to 1878. Along the top of the ridgeline, there is a well-used trail and 40-50 feet canopy with numerous bomb craters. The area surrounding this ridgeline is consistently thick with canopy (60-70 feet) and undergrowth (2-8 feet) with elephant grass, small trees, and tangle vines. There are many small trails below the canopy in this area, but movement along these is relatively difficult.

(i) Area (F). In the THUONG DUC Valley and along the rivers in the area, the main growth is elephant grass and small trees. There are trails along the larger waterways; however, movement off these trails is fairly difficult. From the THUONG DUC Valley northward to the end of the assigned area, the terrain is very steep and movement is slow and difficult. Thick undergrowth of vines, grass and trees hinders movement and the canopy makes navigation difficult.

#### (4) Water Resources.

(a) General. Water resources will be discussed in terms of that readily available for treatment (surface water), and that available from existing wells or potential well sites (ground water). All quantitative terms are equated to the following numerical values in gallons per day (g.p.d.): large, more than 1,500,000 gpd; moderate, 150,000 to 1,500,000 gpd; small, 15,000 to 150,000 gpd; meager, less than 15,000 gpd.

(b) Surface Water. Fresh surface water is primarily available in large to moderate quantities during the high water period. During the remainder of the year, fresh water is primarily available in moderate to small quantities. Access is generally difficult because of narrow, steep-sided valleys and dense vegetation. The sources are generally moderately large, perennial streams and tributaries in the hills and

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mountains. Siting and maintenance of intake points is hindered during the high water period by extreme and rapid stream level fluctuation, debris and flash flooding. This water is soft to moderately hard and biologically contaminated in most places. During the low water period turbidity will decrease; however, hardness and biological contamination will increase.

(c) Ground Water. Ground water is locally available in moderate quantities. In areas where the base rock is weathered or fractured, fresh ground water is available in small to meager quantities. Shallow, low yield wells can be easily driven in weathered rock, but a casing is generally required. For deeper and more productive wells, drilling would be necessary. This water will generally be found in the bases of the weathered rock zones and fractures of the bedrock. Yields will be the greatest in fractured zones of weathered granite and gneiss and from sand. The yields from fractured rock zones decrease with depth and are greatest at zone intersections. In weathered and fractured rock, the depth to water is commonly from 7 to 15 meters. In areas under rice cultivation, fresh water is generally plentiful in moderate amounts from unconsolidated materials. Siting in these areas is relatively easy and shallow wells can easily be dug or driven. Access is generally hindered by seasonal flooding and wet ground in these low-lying areas.

(5) Critical Terrain. In addition to the classic critical terrain (e.g. tactically commanding high ground) because of the limited avenues of movement across the study area, those features which control avenues of movement are also considered to be key terrain. Both potential avenues of movement and critical terrain features are depicted on enclosure (5).

(6) Effects of Topography on Operations.

(a) Elevation and relief of this area is generally poor to unsuitable for vehicular movement except along its southern and eastern extremities. The steep irregular terrain with its dense undergrowth will also be an impediment to foot movement. In their upper courses, waterways with their irregular gradients and swift flow, increasing with the expected rainfall, will further limit cross-country movement. Existing trails, ridgelines and shallow streams present fewer obstacles to movement, thus increasing their ambush potential.

(b) The density of the vegetation and the irregular dissection of terrain reduces observation and fields of fire to a distance of ten meters in places. Target acquisition and marking, as well as, aerial observation will be limited by the forest canopy. For the same reasons dispersion and control of maneuver elements will be difficult to maintain. Heliborne operations, especially medevacs, will be somewhat restricted owing to the limited number of LZ's and their avenues of egress.

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(c) The shallow soil and rock formations covering the hills and mountains will generally hinder construction of individual fighting positions and bunkers. Additional efforts will be required in the construction of fire bases due to the dense foliage, canopy and rock formations. The same factors will influence the type fuze used on ordnance delivered against targets within the area.

(d) The dense vegetation provides excellent concealment and good ambush potential. Cover varies from poor to fair.

(e) The terrain, because of its inaccessibility, favors guerrilla tactics. Roughly dissected, avenues of approach into the area are limited. An early warning system along these avenues would provide the enemy force knowledge of friendly activities and therefore an initial advantage. Concealment allows the enemy freedom of movement, undetected by ground or air observation, all favoring his employment of ambush tactics. Where observation permits, enemy sniper activity can be expected. For previously employed OP's, see Enclosure (6).

### SECTION III - TRANSPORTATION

1. General. Lines of communication within the area of interest are identified below. It is significant that regardless of their degree of trafficability, all remain under constant threat of interdiction by enemy ambushes, snipers and mines.

#### a. Roads.

(1) Route #4 enters the area of interest from the east at (ZC 2055) and parallels the Vu Gia River to Thuong Duc District Headquarters (ZC 1453). Branching to the northwest, Route #4 then parallels the Con River to (ZC 0257) where it becomes no more than a trail. The road is approximately four meters wide and is surfaced with oil and gravel. Heavy rains result in the flooding of the road at (ZC 192558). Route #4 has been employed for convoy traffic to Thuong Duc District Headquarters, however, normal traffic is primarily ox-carts and pedestrians. A visual recon of the route by aerial observer reveals that the bridges at ZC 185555, ZC 192559 and ZC 209554 are out, but can be by-passed.

(2) Route #14 commences at Thuong Duc District Headquarters vicinity (ZC 123514) and proceeds southwest for approximately four kilometers where it leaves the area of interest. Route #14 is a dirt road approximately three meters wide.

(3) Route #544 enters the area of operation at (AT 800770) and proceeds southwest to (AT 844725) where it becomes a trail. It is approximately four meters wide and is surfaced with oil and gravel. Aerial reconnaissance of the route reveals a bridge out at (AT 859735).

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Bomb craters were observed in the road at (AT 867752) and at (AT 859744), the latter can be bypassed. The road bed is in poor condition at (AT 860736).

(4) Route #540, bounds the area of operation to the east. It is a dirt gravel road extending from (AT 899774) in the north to (AT 913577) in the south. Visual reconnaissance reveals the road is open and accommodates vehicular traffic. The visual reconnaissance also reveals an unnamed road extending west from Route #540 (AT 944662) to (AT 893662) where it becomes little more than a trail. This segment of road is dirt and is trafficable by vehicles.

b. Cart tracks/Trails. There are numerous trails and cart-tracks in the lowlands to the east and south of the area of interest. A cart track is characterized by a track, width of 1 to 2 meters with a surface ranging from unimproved earth to crushed stone or gravel. Trails do not normally exceed 1 meter in width. They are unimproved and accommodate only foot traffic or animals. Enclosure (7) identifies known trail networks within the area of interest which are not reflected on maps of the area.

## c. Inland Waterways.

(1) There are three rivers in the area of operation. The first is the Song Yang which flows south from the western end of Happy Valley to the Song Can at (ZC 086577). The Song Con, the second river, flows southeast from (ZC 600575) where it enters the area of operation in the west, to its junction with the Song Vu Gia at (ZC 156536). The Song Vu Gia, the third river, spans the area of operation forming its southern boundary.

(2) The entire area is honey-combed with a network of streams and rills; however, of all the waterways only two; the Song Con and Song Vu Gia, are feasible for significant river traffic. All, however, accommodate canoes or shallow draft (6 to 8 inches) boats year round and small sampans not exceeding 10-18 inches in draft, during high water periods. The bottom and bank materials are silty sand, silt, silty clay and in some areas poorly graded gravel. Secondary streams vary in width from 5 to 30 meters and have generally steep banks. Primary streams vary in width from 15 to 350 meters.

d. Helicopter Landing Zones (HLZ). Enclosure (8) provides the location size and description of existing HLZ's.

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SECTION IV - COMMUNICATIONS

1. General. No telecommunication system exists within the area other than those systems established to support operations.
2. The Village and hamlet radio system for Quang Nam Province has been progressing and has been well received by the Vietnamese. The program supplies TR-5 and HF-1 radios to villages and hamlets as a means of enhancing their security and administrative capabilities. The nets are tied with the respective districts as well as neighboring ID cadre groups, RE/PF, and neighboring FVMAF.

SECTION V - POLITICS

1. General. The normal civil government of the Republic of Vietnam extends from the central government in Saigon through the provinces to districts, villages, and hamlets. The study area lies within Quang Nam Province and encompasses a part of three districts - Thuong Duc, Tai Lee, and Hieu Duc. These Districts, their villages, hamlets and their administration are of principal concern with respect to politics in the study area. Both the districts and hamlets within the study area are identified in enclosure (9).

a. Districts are not legal entities, they are administrative units of the Province and thus, the lowest operating level of the central government.

b. The village and its hamlets should be considered as a single government unit. The hamlet is an administrative unit of the village but has no budget or taxing power. Although the hamlet chiefs are elected, they are subject to the direction of the chairman of the village administrative committee.

2. Within the time frame of this study, specifically, the first four Sundays of March, 1969, a total of twenty-nine village council and one hundred and twenty-five hamlet chief elections are scheduled within Quang Nam Province. The immediate and significant concern is to identify the enemy's effort to infiltrate the existing political centers. The immediate mission of the VC infrastructure is to support the RV/VC military forces in every way conceivable; from financial aid, military recruitment, logistical support, to the establishment of a political movement within the hamlets and villages. The motive being to support the communist armies in their combat efforts. The concurrent and long range mission, which can only be a result of the first, is the establishment of an administrative government based and sustained upon the classical communist mold.

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a. Without aid of the VC infrastructure, the North Vietnamese combat capability in SVN would be seriously handicapped. Because of the immense strain on North Vietnamese human resources and their logistical problems, they have relied on the VC political infrastructure to fulfill these immediate personnel and logistical needs which cannot be satisfied by their own system.

b. Recent indications in the area confirm the aims of the National Liberation Front (NLF). The aims are:

- (1) Discredit the government of Vietnam.
- (2) Prove that the NLF represents the people.
- (3) Unify the people under NLF control.

SECTION VI - ECONOMICS

1. General. The area of study is potentially rich in minerals, forest resources, fishing and agricultural products. To date, the mining and manufacturing industry is non-existent. The vast forest resources are virtually untapped. There are tropical hard woods of commercial value in considerable quantities in the mountains. Fishing is done in addition to farming inland. Agricultural pursuits include the growing of rice, corn, potatoes, peanuts, squash, melons, pineapple, and maniac.

2. By far, the significant occupation in the area of interest is rice farming. Three crops are grown yearly with the next harvest to commence in early April, 1969. Reportedly, seven rice mills identified below, are in the study area.

<u>HA LET</u>	<u>LOCATION</u>	<u>AVERAGE OUTPUT</u>
DAI PHU	AT 878574	720 kg/Day
MY LIEN	AT 837573	720 kg/Day
PHUOC HUNG	AT 918728	1100 kg/Day
HA TAN	ZC 150534	900 kg/Day
TINH DUNG TAY	ZC 168545	900 kg/Day
MAU LAM	ZC 120555	900 kg/Day
THANH DAI	ZC 110564	900 kg/Day

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3. Skills and occupation includes: masons, carpenters, weavers, seamstresses, cobblers, photographers and brick makers. In addition, there is a limited amount of handicraft, fish and livestock production.

### SECTION VIII - SOCIOLOGY

1. General. There are roughly 45,000 people living within the study area, most of whom are found inhabiting the lowland areas along the Song Con and Song Vu Gia in the south and about 500 in the east. Theoretically, the mountain areas north from the southern slopes of Charlie Ridge (overlooking the Song Con and Song Vu Gia) are unpopulated. There are, however, scattered Montagnard tribes subsisting by slash and burn farming, subject to the whims of enemy forces within the area. The villages, hamlets, their location, population and security category are all identified in enclosure (9). It should be noted that the enemy situation has precluded a survey of the entire study area, therefore villages and hamlets not listed in enclosure (9) can be expected.

a. Other than the ethnic Vietnamese, the area is also inhabited by the Sedang and Katu Montagnard tribes. The Montagnards have a patriarchal social order and live in widely dispersed villages. Their household consists of the extended family. They are customarily reserved and cautious; watching outsiders until his motives can be determined.

### 2. Medical

a. Diseases. The more common diseases within the study area are malaria, cholera, plague, typhoid, dysentery, yaws, leprosy, tuberculosis, venereal diseases, smallpox and dengue fever.

(1) By far, malaria is the primary cause which impairs health within the area of interest. Interrogation reports of PW's and Hoi Chanh indicate as many as twenty men per battalion per week have been evacuated as a result of malaria. Approximately 8.7 of those enemy forces contracting malaria die from the disease.

(2) The second most important disease affecting forces, particularly VC/NVA forces is that comprised of diarrheal diseases. While seldom fatal, an outbreak can sweep through a unit in epidemic proportions for a period of several days.

(3) Tuberculosis is the leading communicable disease problem both in morbidity and mortality.

(4) Skin diseases, particularly fungus infections, are especially common in jungle areas. While most skin diseases are merely sources of irritating discomfort, a number have been responsible for hospitalization.

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b. The poor quality and insufficient quantity of potable drinking water are a constant health hazard. Polluted water supplies contribute to the endemicity of several diseases common in the study area.

c. Ecology.

(1) A variety of species of mosquitoes, flies, lice, fleas, ticks, mites, leeches and insect parts such as scorpions and centipedes, are common to the study area. Many are chief vectors of disease and/or responsible for secondary infections which could become incapacitating if not properly treated.

(2) Rats, mice, and other rodents exist in some quantity and serve as hosts to fleas, lice, mites and other parasites. These rodents remain prevalent in populated areas despite an active program for their extermination.

**SECTION VIII - ENEMY SITUATION**

1. General. The enemy has habitually used the study area as a haven for his forces and as an avenue of approach to the western periphery of the DaNang vital area. The density of the canopied jungle affords the enemy with concealed routes of movement for both his troops and logistics from the lowlands to his base areas. During past operations the enemy has noticeably concentrated his efforts on delaying friendly forces in the area of Hill 502 and Hill 1025

2. Composition, Disposition, and Strength. Based within the study area are approximately 4,350 organized enemy forces. All under operational control of the Central Wing Headquarters, the NVA strength reaches some 3,900 personnel. Local forces and various transportation personnel account for the remaining organized forces. A thorough enemy Order of Battle Study of individual units is set forth in enclosure (10).

3. Reinforcement Capabilities.

a. The 21st NVA Regiment, 2nd NVA Division, is currently operating within the An Hoa Basin. The Regiment could reinforce units in the study area within 24 hours utilizing a force march. Losses at the hands of both the ARVN and MACV during recent weeks lessen the probability of his adopting this course of action. Although no PW's have been captured to confirm the Regiment's losses, they are considered to be somewhat less than their normal 900 man strength.

b. The Regiment, along with organic support units of the 2nd NVA Division, will likely attempt to divert friendly operations by an intensification of pressure against the An Hoa industrial and military complex, or the Thuong Duc Special Forces Camp.

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## 4. Transportation/Logistical Corridors.

a. General. The known VC/NVA logistical support network in this area is shown on enclosure (11). This information was obtained primarily from VC/NVA maps, captured in Dec68 and Feb69, and PW/Hoi Chanh interrogation reports of Feb69. The stations and routes shown are semi-permanent as the enemy alters them when harassed by FVMAF operations or concentrated bombardment.

b. Types of Transportation Units. Three main types of units utilize this network: transportation battalions of the 220nd NVA Regiment of MR-5, individual unit transportation groups, and the K-series transportation units. The four transportation battalions of the 220nd Regiment have an average strength of 300 men, primarily civilian and Montagnard laborers. Presently, it is not known which or how many of these battalions operate along these routes. Individual transportation units (i.e., those of the 141st NVA Regiment, 31st NVA Regiment and 368B Arty Regiment) have a strength that varies with the amount of civilian populace available in their area of operations. These groups are led by NVA and travel with their respective units. The K-series transportation groups provide logistical support for VC/NVA units operating in their areas. The two groups presently working in this area are the K-600 and K-625. Their average strength is approximately 60-80 personnel of mixed VC, VCI and civilian laborers.

c. Security measures taken by these transportation units are slight, but seem to increase as they approach the eastern ends of the supply routes. Normally, point and rear security are the only forces provided. Harassing or negative resistance can be expected from these units.

d. Method of transportation is a combination of foot, bicycle and boat traffic. The type and amount of material varies but generally ammunition, medical gear and miscellaneous supplies are carried to the East for the using units. In return, food from the lowlands is obtained and distributed along the routes on the return trip.

e. Critical or key areas along this network are shown on the overlay as points A and B. These areas are apparently focal points for the supply routes, as well as primary sub-stations/depots.

f. In general, information on the logistical support network in this area is limited. Specific units, routes and quantity of material transported, other than those already mentioned, are not available at the time of this study.

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ILLUMINATION TABLE

(MARCH 1969)

<u>DATE</u>	<u>ILLUMINATION</u>	<u>MOON RISE</u>	<u>MOON SET</u>	<u>MOON PHASE</u>
01	90	1628	0501	
02	95	1725	0544	
03	98	1813	0623	
04	100	1905	0701	FULL MOON
05	99	1957	0737	
06	96	2050	0814	
07	91	2145	0851	
08	84	2242	0932	
09	75	2343	1017	
10	65	NONE	1108	
11	54	0047	1204	LAST QTR
12	42	0152	1306	
13	31	0254	1411	
14	21	0351	1516	
15	13	0443	1618	
16	06	0529	1717	
17	02	0610	1813	
18	00	0648	1907	NEW MOON
19	01	0726	2000	
20	04	0803	2052	
21	09	0840	2144	
22	15	0920	2238	
23	23	1003	2332	
24	31	1049	NONE	
25	40	1138	0026	
26	50	1230	0118	1st QTR
27	59	1323	0208	
28	68	1417	0255	
29	77	1510	0338	
30	85	1603	0418	
31	91	1645	0457	

Enclosure ( 2 )

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ILLUMINATION TABLE

(APRIL 1969)

<u>DATE</u>	<u>ILLUMINATION</u>	<u>MOON RISE</u>	<u>MOON SET</u>	<u>MOON PHASE</u>
01	96	1746	0533	
02	99	1839	0610	
03	100	1934	0648	FULL MOON
04	98	2033	0728	
05	94	2134	0813	
06	87	2239	0903	
07	78	2345	0959	
08	68	NONE	1100	
09	57	0048	1204	
10	45	0147	1309	LAST QTR
11	34	0239	1411	
12	24	0326	1510	
13	15	0408	1605	
14	08	0447	1605	
15	03	0523	1605	
			1751	
16	01	0559	1842	
17	00	0637	1934	NEW MOON
18	05	0715	2027	
19	05	0756	2121	
20	10	0842	2215	
21	17	0930	2309	
22	24	1021	NONE	
23	33	1113	0010	
24	42	1207	0048	
25	52	1259	0232	
				1st QTR
26	61	1351	0213	
27	71	1442	0252	
28	80	1534	0328	
29	87	1626	0404	
30	94	1720	0441	

Enclosure ( 2 )

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ILLUMINATION TABLE

(MAY 1969)

<u>DATE</u>	<u>ILLUMINATION</u>	<u>MOON RISE</u>	<u>MOON SET</u>	<u>MOON PHASE</u>
01	98	1817	0520	
02	100	1918	0604	FULL MOON
03	99	2024	0653	
04	95	2132	0748	
05	89	2238	0849	
06	80	2340	0955	
07	71	NONE	1101	
08	60	0036	1205	
09	48	0125	1305	LAST QTR
10	37	0208	1401	
11	27	0247	1454	
12	18	0324	1546	
13	11	0400	1637	
14	05	0435	1728	
15	02	0515	1820	
16	00	0553	1913	NEW MOON
17	01	0637	2108	
18	03	0724	2101	
19	07	0814	2153	
20	12	0906	2242	
21	19	0959	2327	
22	27	1052	NONE	
23	36	1143	0010	
24	45	1233	0048	1st QTR
25	55	1323	0125	
26	65	1413	0200	
27	74	1505	0235	
28	83	1600	0313	
29	91	1659	0353	
30	96	1803	0439	
31	99	1910	0531	

Enclosure ( 2 )

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ILLUMINATION TABLE

(JUNE 1969)

<u>DATE</u>	<u>ILLUMINATION</u>	<u>MOON RISE</u>	<u>MOON SET</u>	<u>MOON PHASE</u>
01	100%	2019	0631	FULL MOON
02	97	2126	0737	
03	91	2227	0845	
04	83	2320	0953	
05	73	NONE	1057	
06	63	0006	1156	
07	52	0047	1251	LAST QTR
08	41	0125	1343	
09	31	0201	1434	
10	22	0237	1525	
11	14	0313	1616	
12	08	0352	1709	
13	04	0435	1802	
14	01	0520	1856	
15	00	0609	1948	NEW MOON
16	01	0701	2038	
17	04	0754	2125	
18	08	0846	2208	
19	14	0938	2247	
20	21	1028	2323	
21	30	1117	2358	
22	39	1206	NONE	
23	49	1256	0033	1st QTR
24	60	1347	0108	
25	70	1442	0146	
26	80	1542	0228	
27	88	1647	0315	
28	95	1755	0411	
29	99	1904	0514	
30	100	2009	0622	FULL MOON

Enclosure ( 2 )

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## 5. Intelligence Reports.

- a. Hai Loc District. Enclosure (12)
- b. Hieu Duc District. Enclosure (13)
- c. Thuong Duc. Enclosure (14)

## 6. Movement, Sightings, and Incidents.

- a. Movement and Sightings. Enclosure (15)
- b. Incidents. Enclosure (16)
- c. Fortifications. Enclosure (17)
- d. APD, SLAR, and IR. Enclosure (18)
- e. Aircraft Fire Incidents. Enclosure (19)

**Enclosures:**

- 1) - Sunrise and Sunset Tables
- 2) - Illumination Tables
- 3) - Rock Formations
- 4) - Forestation/Vegetation
- 5) - Water Resources
- 6) - Effects of Topography on Operations
- 7) - Trail Overlay
- 8) - Helicopter Landing Zones W/Overlay
- 9) Villages/Hamlets
- 10) - Enemy Order of Battle
- 11) - Transportation Corridors - Logistical Net Overlay
- 12) - Intelligence Report - Dei Loc District
- 13) - Intelligence Report - Hieu Duc District
- 14) - Intelligence Report - Thuong Duc
- 15) - Movement and Sightings
- 16) - Incidents W/ Overlay
- 17) - Fortifications / W/Overlay
- 18) - APD, SLAR, and IR W/ Overlay
- 19) - Aircraft Fire Incidents

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SUNRISE/SUNSET TABLE

	<u>MARCH</u>		<u>APRIL</u>		<u>MAY</u>		<u>JUNE</u>	
	Sunrise	Sunset	Sunrise	Sunset	Sunrise	Sunset	Sunrise	Sunset
1.	0705	1855	0643	1900	0623	1906	0614	1916
2.	0704	1855	0642	1900	0623	1906	0614	1916
3.	0704	1855	0642	1900	0622	1906	0614	1916
4.	0703	1855	0641	1900	0622	1907	0614	1917
5.	0702	1855	0641	1900	0621	1907	0614	1917
6.	0701	1856	0640	1901	0621	1907	0614	1917
7.	0701	1856	0640	1901	0620	1907	0614	1917
8.	0700	1856	0639	1901	0620	1908	0614	1918
9.	0700	1856	0638	1901	0619	1908	0614	1918
10.	0659	1856	0637	1901	0619	1908	0614	1918
11.	0659	1857	0636	1901	0619	1908	0614	1919
12.	0658	1857	0635	1901	0618	1909	0615	1919
13.	0657	1857	0635	1901	0618	1909	0615	1919
14.	0656	1857	0634	1901	0617	1909	0615	1919
15.	0655	1858	0633	1901	0617	1910	0615	1919
16.	0655	1858	0633	1902	0617	1910	0615	1920
17.	0654	1858	0632	1902	0617	1910	0615	1920
18.	0653	1858	0631	1902	0616	1911	0616	1920
19.	0652	1858	0631	1902	0616	1911	0616	1920
20.	0652	1858	0630	1903	0616	1911	0616	1921
21.	0651	1858	0630	1903	0616	1912	0616	1921
22.	0650	1859	0629	1903	0616	1912	0616	1921
23.	0649	1859	0629	1904	0615	1912	0617	1921
24.	0648	1859	0628	1904	0615	1913	0617	1921
25.	0646	1859	0627	1904	0615	1913	0617	1922
26.	0646	1900	0627	1905	0615	1913	0617	1922
27.	0645	1900	0626	1905	0615	1914	0618	1922
28.	0645	1900	0626	1905	0615	1914	0618	1922
29.	0644	1900	0625	1905	0614	1914	0618	1922
30.	0643	1900	0624	1905	0614	1915	0618	1923
31.	0643	1900			0614	1915		

Duration of Civil Twilight is approximately 23 minutes.

Civil Twilight is defined as follows: The degree of illumination at the beginning and end of civil twilight is such that the brightest stars are just visible and terrestrial objects can be easily distinguished.

DaNang local standard is GCT plus 8 hours (Zone H).

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OP'S

<u>GRID</u>	<u>DESCRIPTION</u>	<u>OBSERVATION &amp; DIRECTION</u>	<u>DEFENDABILITY</u>
ZC06			
ZC061580	EDGE OF FINGER	GOOD, S-SW	NOT DEFENDABLE
ZC063603		FAIR, W	....
ZC062692		GOOD, SW,S, SE	NOT DEFENDABLE
ZC07			
ZC075525		GOOD, S,SE,SW	DEFENDABLE
ZC079540		GOOD, S,SW	DEFENDABLE
ZC075576		GOOD, RIVER, SW	DEFENDABLE
ZC074581		GOOD, N	NOT DEFENDABLE
ZC08			
ZC080520		GOOD,N,S	NOT DEFENDABLE
ZC085538		POOR,360o	DEFENDABLE
ZC088538	BREAK IN CANOPY	POOR	NOT DEFENDABLE
ZC09			
ZC092538		POOR,SE	NOT DEFENDABLE
ZC093653		GOOD,NE	NOT DEFENDABLE
ZC096682		FAIR,NE	DEFENDABLE
ZC13			
ZC130581	HILL TOP	GOOD,360o	DEFENDABLE
ZC133590	HILL TOP	GOOD,360o	DEFENDABLE
ZC133653		GOOD,E-W	DEFENDABLE
ZC14			
ZC142578		X.W,S,E,N,NW	NOT DEFENDABLE
ZC146674		POOR, S	DEFENDABLE
ZC16			
ZC165576		GOOD,N,NE,SW	NOT DEFENDABLE
ZC162678		GOOD, S,E,W.	DEFENDABLE
ZC161699		POOR	DEFENDABLE
ZC17			
ZC176645	HILL	POOR	DEFENDABLE
ZC18			
ZC185646		FAIR,NW	DEFENDABLE
ZC182644		GOOD,N,NW	DEFENDABLE

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OP'S

<u>GRID</u>	<u>DESCRIPTION</u>	<u>OBSERVATION &amp; DIRECTION</u>	<u>DEFENDABILITY</u>
<u>ZC19</u>			
ZC199581	HILL 383, BALD	GOOD, 360o	....
ZC194586		EXCELLENT, TRAIL	DEFENDABLE
ZC194644		FAIR, VALLEY	NOT DEFENDABLE
<u>ZC20</u>			
ZC206585		GOOD, S, SW	DEFENDABLE
ZC204582	BREAK IN CANOPY	GOOD, N, W,	DEFENDABLE
ZC204596		GOOD, S, SW, SE	NOT DEFENDABLE
ZC204669		FAIR, S	NOT DEFENDABLE
<u>ZC05</u>			
ZC056600		GOOD, W	DEFENDABLE

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<u>GRID</u>	<u>DESCRIPTION</u>	<u>OBSERVATION &amp; DIRECTION</u>	<u>DEFENDABILITY</u>
<u>AT79</u>			
AT793576		GOOD, 360o	.....
AT799587		GOOD, W, SW	DEFENDABLE
AT791595		FAIR, S-VALLEY	.....
<u>AT80</u>			
AT806600	HILL 819	GOOD, S	NOT DEFENDABLE
AT808601		GOOD, 180o	NOT DEFENDABLE
<u>AT81</u>			
AT819597		GOOD, W, SE	DEFENDABLE
AT813592		GOOD, S, SW, SE	NOT DEFENDABLE
AT816595	HILL TOP	GOOD, W, SW	DEFENDABLE
AT813603		GOOD, S, E, W	NOT DEFENDABLE
AT814619		GOOD, S	DEFENDABLE
<u>AT82</u>			
AT823605	HILL 886	GOOD, 360o	DEFENDABLE
AT826604		GOOD	DEFENDABLE
AT829616		GOOD, NE	.....
AT823648		GOOD	NOT DEFENDABLE
AT822405		GOOD, 360o	DEFENDABLE
AT826727		GOOD, E, NE	NOT DEFENDABLE
AT821735		GOOD, E, NE	NOT DEFENDABLE
AT823743		GOOD, S, SE	NOT DEFENDABLE
AT821752		GOOD, 360o	DEFENDABLE
AT825765		GOOD, N, NW, NE	NOT DEFENDABLE
<u>AT83</u>			
AT831659	HILL 502	GOOD, 360o	.....
AT836659	HILL TOP	X. 360o	DEFENDABLE
AT832658	FINGER	GOOD, E	NOT DEFENDABLE
AT839687		GOOD, S	.....
AT832724		FAIR, E, SE	DEFENDABLE
AT834727		FAIR, N, NW, NE	DEFENDABLE
AT835731		FAIR, N, NE	DEFENDABLE
AT837757		X. 360o	DEFENDABLE
AT838759		GOOD, 360o	DEFENDABLE
AT833776		GOOD, 360o	DEFENDABLE
AT830777		GOOD, 360o	DEFENDABLE
<u>AT84</u>			
AT841689		GOOD, S	DEFENDABLE
AT847690		GOOD, VALLEY	DEFENDABLE
AT841739		FAIR, S	.....
AT840737		GOOD, S	NOT DEFENDABLE
AT842736		GOOD, SW, VALLEY	NOT DEFENDABLE

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Enclosure (6)

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		<u>OP'S</u>	
<u>GRID</u>	<u>DESCRIPTION</u>	<u>OBSERVATION &amp; DIRECTION</u>	<u>DEFENDABILITY</u>
<u>AT85</u>			
<u>AT857678</u>	GOOD	GOOD, E	DEFENDABLE
<u>AT857621</u>	HILL 405	X.360o	DEFENDABLE
<u>AT857658</u>		GOOD, S, SE	NOT DEFENDABLE
<u>AT86</u>			
<u>AT863605</u>		X.	DEFENDABLE
<u>AT867627</u>	HILL 419	X.360o	DEFENDABLE
<u>AT866626</u>		GOOD, 180o	
<u>AT864665</u>	FINGER	GOOD, S, E, W,	DEFENDABLE
<u>AT860663</u>		X.360o	
<u>AT862665</u>		X.360o	DEFENDABLE
<u>AT864681</u>	HILL 270	X.	<del>DEFENDABLE</del>
<u>AT869625</u>		GOOD, 180o	o o o o
<u>AT87</u>			
<u>AT871678</u>		GOOD, 180o	o o o o
<u>AT873663</u>		GOOD, SW, E	DEFENDABLE
<u>AT88</u>			
<u>AT881665</u>	HILL 162	GOOD, S, E, N	NOT DEFENDABLE
<u>AT880667</u>		GOOD, W, NE	NOT DEFENDABLE
<u>AT884734</u>	RIDGELINE	GOOD, W, N	NOT DEFENDABLE

Notes: "X" denotes excellent observation.

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Enclosure (6)

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DRAFT

LANDING ZONES

<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>ZC00</u>			
ZC008582	1	POOR, 3' STULPS	....
ZC004582	1	GOOD, LOW GRASS	....
ZC005597	1	TIGHT, SLOPE	....
ZC002598	1	POOR, 4' BRUSH	....
ZC009596	1	GOOD, BURNED OFF AREA	....
ZC005603	1	FAIR, SMALL KNOLL	....
ZC004619	2	.....	....
ZC003619	3	HIGH RIDGE, 10' GRASS	....
ZC005638	1	POOR, STREAM BED	....
ZC004684	1	VERY SMALL	....
ZC001681	1	12' BOMB CRATER	....
<u>ZC01</u>			
ZC015585	M	GOOD, BARE	....
<u>ZC04</u>			
ZC045678	1	GOOD, 10' GRASS	....
<u>ZC05</u>			
ZC055580	10	GOOD, LOW GRASS	....
ZC055678	1	GOOD, VALLEY FLOOR	....
ZC054677	1	GOOD, 4' GRASS	....
ZC054569	2	GOOD, 10' GRASS	....
ZC058567	3	FAIR, 5' GRASS	....
ZC059578	1	GOOD, 7' GRASS	....
ZC054577	2	GOOD, 10' GRASS	....
ZC058570	1	GOOD, 3' GRASS	....
ZC052578	2	GOOD, 6' GRASS	....
ZC055688	1	GOOD, 4' GRASS	....
ZC052681	1	POOR, 10' GRASS	....
ZC052687	1	POOR, 2' GRASS	....
ZC051681	1	GOOD, LOW GRASS	....
<u>ZC06</u>			
ZC068515	M	GOOD, ON SAND BAR	....
ZC063517	1	GOOD, 4' GRASS	....
ZC065519	1	GOOD, 2' STULPS	....
ZC066575	1	GOOD, 6' GRASS	....
ZC064579	1	GOOD, OLD FIELD	....
ZC066606	1	GOOD, LOW SHRUB	....
ZC066600	1	GOOD, LOW GRASS	....
ZC064603	1	GOOD, 3' SHRUB	....
ZC064675	1	GOOD, STULPS	....
ZC068677	2	GOOD, 4' GRASS	....
ZC068675	1	GOOD, VALLEY FLOOR	....

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enclosure (3)

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>Z007</u>			
Z0078515	1	GOOD, 4' GRASS	....
Z0075515	3	GOOD, 6' GRASS	....
Z0073516	4	GOOD, OLD VILLAGE	....
Z0074582	2	GOOD, 2' GRASS	....
Z0075581	1	GOOD, LOW GRASS	....
<del>Z0075581</del>	2	GOOD, LOW GRASS	....
Z0075578	1	GOOD, 4' GRASS	....
Z0074579	1	GOOD, 3' GRASS	....
Z0077577	1	GOOD, CULTIVATED AREA	....
Z0071572	2	GOOD, 3' GRASS	....
Z0076578	1	GOOD, 4' GRASS	....
<u>Z008</u>			
Z0080520	1	FAIR, 10' BRUSH	....
Z0089538	2	GOOD, LOW STUMPS	....
Z0084581	1	GOOD, 4' GRASS	....
Z0082580	2	GOOD, 6' GRASS	....
Z0085582	2	GOOD, 3' GRASS	....
Z0087581	2	GOOD, 3' GRASS	....
Z0083655	1	POOR	....
Z0089658	1	GOOD, 8' GRASS	....
Z0089656	1	POOR, 15' GRASS	....
Z0083668	1	GOOD, BURNED OFF	....
Z0088668	5	FAIR, 12' GRASS	....
Z0089673	1	GOOD, CULTIVATED FIELD	....
Z0084687	1	GOOD, CLEARED AREA	....
Z0085685	1	GOOD, LOW GRASS	....
Z0084718	1	GOOD, OPEN FIELD	....
<u>Z009</u>			
Z0091535	2	FAIR, STUMPS AND HOLES	....
Z0093536	1	GOOD, SMALL STUMPS	....
Z0095575	M	POOR, 5' WATER	....
Z0098574	8-10	GOOD, 3' GRASS	....
Z0094655	1	GOOD, CULTIVATED AREA	....
Z0096656	1	GOOD, PUNJI PITS	....
Z0092663	1	GOOD, ELEPHANT GRASS	....
Z0095666	1	POOR, 15' BAMBOO	....
Z0092665		2-6' GRASS	....
Z0097664	1	POOR, 10' GRASS	....
Z0096678	1	GOOD, 6' GRASS	....
Z0090695	2	GOOD, 10' GRASS	....
Z0095702	2	GOOD, 1' GRASS	....
Z0096716	1	GOOD, 3' BRUSH	....
Z0094715	1	GOOD, CLEARING	....
Z0092718	1	GOOD, FIELD	....
Z0099714	1	GOOD, 4' BRUSH	....
Z0098712	1	GOOD, OLD WHEAT FIELD	....
<u>Z010</u>			
Z0104649	1	GOOD, LOW BRUSH	....

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Enclosure (8)

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
ZC109657	1	GOOD, BARE, BAMBOO FENCE	....
ZC103654	2	GOOD, PADDIES	....
ZC104660	1	POOR, ON FINGER	....
ZC104665	1	FAIR, BAMBOO	....
ZC109673	1	GOOD	....
ZC101671	3	10' GRASS	....
ZC102674	1	GOOD, 5' GRASS	....
ZC103693	1	GOOD, 10' GRASS	....
ZC101698	M	GOOD, 2' GRASS	....
ZC106704	1	FAIR, 8' GRASS	....
ZC105701	1	GOOD, CORN FIELD	....
<u>ZC11</u>			
ZC1166		MANY LARGE LZ'S	....
ZC117676	1	GOOD, DOWN <del>ED</del> BAMBOO	....
ZC116674	1	GOOD, 10' GRASS	....
ZC112674	2	GOOD, LOW BRUSH	....
ZC114681	1	GOOD, CUT BY PATROL	....
ZC117682	1	GOOD, LOW BRUSH	....
ZC111681	1	FAIR, 12' GRASS	....
ZC116695	1	FAIR, 15' GRASS	....
ZC118696	1	GOOD, TOP OF HILL	....
ZC113711	1	GOOD, 9' GRASS	....
ZC115710	1	GOOD, 7' GRASS	....
ZC117717	1	TIGHT, 4' SHRUB	....
ZC110710	1	GOOD, 6' GRASS	....
<u>ZC12</u>			
ZC126584	1	GOOD, 3' GRASS	....
ZC129591	1	GOOD, 5' GRASS	....
ZC125593	2	FAIR, 6' GRASS	....
ZC128591	1	GOOD, LOW BRUSH	....
ZC125595	1	GOOD, LOW GRASS	....
ZC125654	1	FAIR, ON SLOPE	....
ZC125678	1	GOOD, THICK BRUSH	....
ZC1266		MANY LARGE LZ'S	....
ZC124675	1	GOOD	....
ZC128672	2	GOOD, 5' GRASS	....
ZC123697	1	TIGHT, 7' GRASS	....
ZC121697	4	GOOD, BARE	....
ZC128704	1	GOOD, WET	....
ZC129712	1	GOOD, 5' SHRUBS	....
ZC126714	1	GOOD, SMALL TREES	....
ZC123728	2	GOOD, 5' GRASS	....
ZC128730	1	GOOD, 10' GRASS	....
ZC126740	5-6	GOOD, 8' GRASS	....
ZC128742	2	MUDDY	....

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>ZC13</u>			
ZC130513	2	GOOD, RICE PADDY	.....
ZC136588	1	GOOD, 3' GRASS	.....
ZC138588	1	GOOD, 3' GRASS	.....
ZC138587	1	GOOD, 5' GRASS	.....
ZC131583	1	HIGH GRASS	.....
ZC134590	1	GOOD, 5' SHRUB	.....
ZC137648	1	POOR, CUT	.....
ZC131654	1	BURNED OFF AREA	.....
ZC133655	1	GOOD, ELEPHANT GRASS	.....
ZC131658	1	GOOD, 3' GRASS	.....
ZC135654	1	POOR, LOW GRASS	.....
ZC139657	1	GRASS AND SHRUB	.....
ZC139668	M	GOOD, 5' GRASS	.....
ZC139672	1	RECENTLY CULTIVATED	.....
ZC139676	1	GOOD, 8' GRASS	.....
ZC131671	1	GOOD, 12' GRASS	.....
ZC138683	1	GOOD, CUT	.....
ZC134688	1	GOOD, 10' GRASS	.....
ZC137686	1	GOOD, CUT	.....
ZC138686	M	GOOD, 5' GRASS	.....
ZC139680	1	GOOD, 9' GRASS	.....
ZC139692	1	GOOD, LOW SHRUB	.....
ZC132691	1	GOOD, LOW GRASS	.....
ZC132707	1	GOOD, 20' SLOPE	.....
ZC134708	1	GOOD, 5' GRASS	.....
ZC136708	1	GOOD, CRATER	.....
ZC130712	1	FAIR, CUT BY PATROL	.....
<u>ZC14</u>			
ZC141517	2	GOOD, SMALL SHRUB	.....
ZC143579	1	GOOD, 6' GRASS	.....
ZC142578	1	GOOD, 3' GRASS	.....
ZC144585	1	GOOD	.....
ZC142586	1	GOOD, 5' BRUSH	.....
ZC147584	1	GOOD, BURNED OFF	.....
ZC141649	1	BALD SPOT	.....
ZC149648	1	6' GRASS	14 JAN69
ZC145655	1	3' GRASS	.....
ZC146653	1	POOR, 10' GRASS	.....
ZC146661	M	GOOD, 6' GRASS	.....
ZC145665	M	GOOD, 4-5' GRASS	.....
ZC147666	M	GOOD, 8' GRASS	.....
ZC148666	1	GOOD, 4-5' GRASS	.....
ZC148674	1	SMALL, ON FINGER	.....
ZC143670	2	GOOD, 3' GRASS	.....
ZC147672	2	.....	.....
ZC142675	1	.....	.....
ZC146672	2	.....	.....
ZC147695	10	GOOD, 3' GRASS	.....
ZC149702	1	GOOD, 15' GRASS	.....

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SCHEMATIC 1

<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>ZC15</u>			
ZC158517	5	GOOD	....
ZC152524	M	GOOD	19 JAN 69
ZC156568	1	POOR, STUMPS	....
ZC157578	1	GOOD, 3' GRASS	....
ZC156573	1	POOR, FALLEN TREES	....
ZC152581	1	FAIR, SLOPE	....
ZC151595	1	GOOD, 3' BRUSH	....
ZC156647	1	GRASS, RIDGELINE	....
ZC150647	1	GOOD, 8-10' GRASS	....
ZC151650	1	GOOD, 3' GRASS	....
ZC155658	2	GOOD, 6' GRASS	25 JAN 69
ZC158663	1	GOOD, 2' GRASS	....
ZC152662	2	EXCELLENT	....
ZC156663	1	GOOD, 5' GRASS	....
ZC153666	1	GOOD, SMALL TREES	....
ZC154674	1	GOOD, 6' GRASS	....
ZC159687	1	DEPRESSION, 8' GRASS	....
ZC153704	2	GOOD, 3' GRASS	....
ZC150702	2	GOOD, 3' SHRUB	....
ZC155707	6	GOOD, 3' GRASS	....
ZC153702	1	GOOD, PADDY	....
ZC156703	M	FAIR, 10' GRASS	....
ZC155709	3	EXCELLENT, 3' GRASS	....
ZC156708	M	GOOD, 5' GRASS	....
ZC150719	1	GOOD, SMALL STUMPS	....
ZC156719	1	FAIR, 1' SHRUB	....
ZC158717	2	FAIR, 15' GRASS	....
ZC157713	1	FAIR, CUT BY PATROL	....
ZC159715	1	GOOD	....
<u>ZC16</u>			
ZC167566	M	EXCELLENT, 2' GRASS	....
ZC163576	2-3	GOOD, 3' GRASS	....
ZC161646	1	GOOD, 6' GRASS	....
ZC161677		3' GRASS, CRATER	....
ZC168678	1	GOOD, 8' SHRUB	....
ZC166678	1	GOOD, 10' GRASS	....
ZC165673	1	GOOD, 8' GRASS	....
ZC162074	1	GOOD, CULTIVATED AREA	....
ZC162678	M	GOOD, 8' GRASS	....
ZC168677	1	GOOD, 6' GRASS	....
ZC163576	1	POOR, TREES AND GRASS	....
ZC165648	1	12' GRASS	....
ZC165654	1	GOOD, DRY PADDY	....
ZC160644	1	GOOD, CUT	....
ZC164657	1	GOOD, 2' SHRUB	....
ZC164652	1	GOOD, 7' GRASS	....

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ENCLOSURE

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
ZC165651	1	7' GRASS	....
ZC161659	2	EXCELLENT, 8' SHRUB	....
ZC164605	1	GOOD, 4' GRASS	....
ZC162607	1	GOOD, 6' GRASS	....
ZC162607	1	GOOD, 6' GRASS	....
ZC168663	1	POOR, 10' GRASS	....
ZC162663	1	GOOD, 6-8' GRASS	24 JAN 69
ZC161711	1	GOOD, 6-8' GRASS	....
ZC162768	3	GOOD, 3' GRASS	....
<u>ZC17</u>			
ZC178584	1	GOOD, 10' GRASS	....
ZC175644	2	GOOD, 3' GRASS	....
ZC175646	1	GOOD, 6' GRASS	....
ZC174651	1	POOR, 15' GRASS	....
ZC177652	1	POOR	....
ZC175650	1	GOOD, 12' GRASS	04 NOV 69
ZC178655	1	GOOD, 12' GRASS	...
ZC178683	1	GOOD, 8' GRASS	....
ZC174684	1	FAIR, 6' GRASS	....
ZC178681	1	POOR, STEEP	....
<u>ZC18</u>			
ZC182584	1	SMALL, BURNED OUT	....
ZC185646	1	.....	....
ZC189648	1	.....	....
ZC185644	1	GOOD, BURNED OFF	....
ZC186646	1	EXCELLENT, 6' GRASS	....
ZC185642	2	POOR, 4' GRASS	....
ZC183653	1	GOOD, 8' GRASS	....
ZC188650	1	GOOD, LOW SHRUB	....
ZC188655	1	GOOD, LOW GRASS	....
<u>ZC19</u>			
ZC194645	2	GOOD, 4' GRASS	....
ZC192648	3	GOOD	....
ZC199644	1	GOOD, 4' GRASS	....
ZC195648	1	FAIR, 10' GRASS	....
ZC199649	1	FAIR, 7' GRASS	....
ZC199646	2	GOOD, 12' GRASS	....
ZC196661	2	GOOD, LOW GRASS	....
ZC194663	1	POOR, 40' SLOPE	....
ZC190660	1	GOOD, 12' GRASS	....
ZC192662	1	GOOD, BURNED GRASS	....
ZC196663	1	GOOD, LOW GRASS	....
ZC198652	1	GOOD, LOW GRASS	....
ZC198652	1	FAIR	....
ZC192654	1	GOOD, 7' GRASS	....
ZC197653	1	GOOD, LOW GRASS	....
ZC197658	1	GOOD, 6' GRASS	....
ZC198592	1	POOR, ROCKS	....
ZC194586	1	POOR, 6' BRUSH	....
ZC196571	1	GOOD, BARE	....

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>ZC20</u>			
ZC205569	2	GOOD, 2' GRASS	....
ZC207578	1	GOOD, LOW GRASS	....
ZC208582	1	GOOD, BARE	....
ZC204588	1	GOOD, 6' GRASS	....
ZC208589	1	FAIR, 8' GRASS	....
ZC204589	2	GOOD, 2-3' SHRUB	....
ZC209590	2	GOOD, 2' SHRUB	....
ZC205591	1	GOOD, 3' SHRUB	....
ZC209594	1	GOOD, 3' SHRUB AND TREES	....
ZC204596	M	GOOD, 3' GRASS	....
ZC204605	1	GOOD, 10' GRASS	....
ZC207603	1	POOR, 6' GRASS	....
ZC200620	1	GOOD, SMALL STUMPS	....
ZC201619	1	FAIR, SMALL STUMPS	....
ZC206645	1	GOOD, 5' GRASS	....
ZC200643	1	FAIR, 8' GRASS	....
ZC201643	2	GOOD, LOW GRASS	....
ZC200645	1	POOR, ON STEEP SLOPE	....
ZC206666	1	POOR, 6' GRASS	....
ZC207665	1	POOR, 6' GRASS	....
ZC207663	1	GOOD, 5' GRASS	....
ZC206662	1	POOR, 7' GRASS, BOULDERS	....
ZC205661		POOR, 1-3' ROCKS	....
<u>ZC21</u>			
ZC214571	1	GOOD, LOW GRASS	....
ZC214586	1	POOR, LOW GRASS	....
ZC219585	1	POOR, BLOWN OUT	....
ZC211583	1	GOOD, SLOPE	....
ZC212584	2	6' GRASS	....
ZC219595	M	GOOD, LOW GRASS	....
ZC211593	2	GOOD, TREES	....
ZC211611	1	GOOD, BOMB CRATER	....
ZC210652	1	GOOD, 1-3' GRASS	....
ZC210660	1	POOR, 8' BRUSH	....
ZC213662	1	POOR, 20' TREES	....
<u>AT79</u>			
AT794568	1	GOOD, 6' SHRUB	02 NOV 66
AT793576	3	GOOD, LOW GRASS	....
AT798580	1	GOOD, BOMBED OUT	....
AT798587	2	GOOD, LOW BRUSH	....
AT792586	M	GOOD, BALD HILL	....
AT792592	5	GOOD, 2' GRASS	....
AT792591	1	GOOD, BALD HILL	....
AT795595	2	GOOD, BARE AREA	02 DEC 66
AT797625	1	GRASS AND SHRUBS	....
AT793654	3	GOOD, 5' GRASS	....
AT797658	1	GOOD, LOW SHRUB	....
AT791656	1	GOOD, 5' GRASS	....

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
AT793664	1	POOR, CUT	.....
AT798704	1	GOOD	.....
<u>AT80</u>			
AT808599	1	GOOD, TOP OF HILL	.....
AT803598	1	GOOD	.....
AT801597	1	GOOD	.....
AT809600	2	GOOD, LOW GRASS	.....
AT807627		SURROUNDED BY BUNKERS	.....
AT807627	2	GOOD, CLEARED OFF	.....
AT 803649	1	GOOD, LOW BRUSH	.....
<u>AT81</u>			
AT819595	1	FAIR, 3' GRASS	.....
AT812599	6	SLIGHTLY SWAMPY BASIN	.....
AT817598	1	FAIR, 4' GRASS	.....
AT811602	1	GOOD	.....
AT814609	1	GOOD	.....
AT813600	1	GOOD, 3' GRASS	.....
AT813603	1	<del>GOOD</del> 3' GRASS	.....
AT810460	M	RICE PADDY	.....
AT816619	1	FAIR, CRATER	.....
AT811619	1	GOOD, BLOWN OUT	.....
AT812618	1	POOR, TREES AND STUMPS	.....
AT817667	1	POOR, 10' GRASS	.....
AT813736	2	GOOD, 8' GRASS	.....
AT819734		POOR	.....
AT818735	M	GOOD, 12' GRASS	.....
AT815751	3	GOOD, 3' GRASS	.....
AT815753	M	GOOD, 3' GRASS	.....
AT814751	1	GOOD, 5' GRASS	.....
AT817777	1	GOOD, 25' BRUSH	.....
AT815778	1	GOOD, LOW GRASS	.....
<u>AT82</u>			
AT823853	1	GOOD, 3' GRASS	.....
AT828587	1	FAIR, 3' GRASS	.....
AT822592	1	.....	.....
AT821594	1	GOOD, LOW BRUSH	.....
AT820595	1	GOOD, 3' GRASS	.....
AT821604	1	GOOD, LOW GRASS	.....
AT820603	4	GOOD, BARE, MUDDY	.....
AT826605	2	FAIR, 3' GRASS	.....
AT825607	1	BARE	.....
AT821601	M	GOOD, LOW GRASS	.....
AT829617	M	GOOD, 6' GRASS	.....
AT829615	1	GOOD, 2' GRASS	.....
AT827622	1	GOOD, 3' GRASS	.....

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Reference (c)

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
AT824623	1	GOOD, 3' GRASS	....
AT829639	1	LOW GRASS	....
AT829624	10	GOOD, 3' GRASS	....
AT829647	1	GOOD, 3' GRASS	....
AT824680	2	GOOD, 10' GRASS	....
AT829684	1	FAIR, BLOWN OUT	....
AT829681	1	FAIR, 10' SHRUB	....
AT822704	1	BOMB CRATER	....
AT824706	1	EXCELLENT, 4' GRASS	....
AT827704	1	GOOD, TOP OF HILL	....
AT824728	1	GOOD, 10-12' GRASS	....
AT827736	1	GOOD, 10-12' GRASS	....
AT823737	1	GOOD, 5' GRASS	....
AT829738	1	GOOD, 10' GRASS	....
AT821731	1	FAIR, 15' GRASS	....
AT829739	2	GOOD, 2' GRASS	20 JAN 69
AT824754	10	ELEPHANT GRASS	....
AT822755	4	GOOD, 6' GRASS	....
AT823757	1	GOOD, LOW GRASS	....
AT829762	1	POOR, 2' BRUSH	....
AT829774	1	GOOD, 8' GRASS	....
AT826771	1	GOOD, BOMB CRATER	....
AT828773	1	GOOD, 2' GRASS	....
AT825774	3	GOOD, OLD PADDY	....
<u>AT83</u>			
AT838607	2	GOOD, 3' GRASS	....
AT830606	2	GOOD, 3' GRASS	....
AT834607	M	GOOD, LOW GRASS	....
AT835616	1	GOOD, PUNJU PITS	....
AT8361		NUMEROUS M.L.Z'S	....
AT834637	1	FAIR, BOMBED OUT	....
AT834649	3	.....	....
AT832639	1	GOOD, 6' GRASS	....
AT833647	2	GOOD, 3' GRASS	....
AT837647	3	GOOD, BARE AREA	....
AT833648	1	POOR, 10' GRASS	....
AT835645	1	GOOD, 3' GRASS	....
AT832646	1	EXCELLENT, CLEARED OFF	....
AT835659	1	GOOD, BALD HILL	....
AT832659	1	GOOD, BOMB CRATER	....
AT839659	1	GOOD, BOMB CRATER	....
AT836666	1	GOOD, 5' BRUSH	....
AT835668	1	GOOD, 4' BRUSH	....
AT835662	1	GOOD, 6' GRASS	....
AT838665	1	GOOD, 3' GRASS	....
AT832662	1	POOR, 10' GRASS	....
AT838678	1	FAIR, 5' SHRUB	....
AT837673	2	GOOD, 5' GRASS	....
AT839670	1	GOOD, 3' GRASS	....
AT835671	1	GOOD, 3' GRASS	....
AT834673	1	GOOD, 3' SHRUB	....

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
AT834676	1	EXCELLENT, 6' GRASS	....
AT836682	1	GOOD, 2' SHRUB	....
AT833685	1	GOOD, 2' GRASS	....
AT839681	2	GOOD, C LEARED OFF	....
AT839695	2	MUST BE APPROACHED FROM EAST ..	....
AT839729	1	GOOD, 3' BRUSH	....
AT838727	2	GOOD, 6' GRASS	....
AT838731	1	GOOD, 4' GRASS	....
AT837737	1	GOOD, BARE	....
AT838735	1	GOOD	....
AT833735	1	GOOD, 5-8' GRASS	....
AT839734	1	GOOD, 5' GRASS	....
AT838738	1	GOOD, MUDDY	....
AT835734	1	GOOD, 8' GRASS	....
AT830734	1	GOOD, 12' GRASS	....
AT833742	1	SMALL, 5' GRASS	....
AT835746	1	POOR, 8' GRASS	....
AT834756	2	ELEPHANT GRASS	....
AT838757	2	GOOD, BURNED OFF	....
AT835755	1	GOOD, 2' GRASS	....
AT830753	1	GOOD, 8' GRASS	....
AT838757	2	GOOD, TOP OF HILL	....
AT838764	1	GOOD, LOW GRASS	....
AT832777	9	GOOD, BURNED OFF	....
AT831772	6	GOOD, 3' GRASS	....
AT836779	6	GOOD, 3' GRASS	....
AT833779	4	GOOD, LOW GRASS	....
AT834773	4	GOOD, RIVER BED	....
AT838772	1	POOR, 15-20' GRASS	....
<u>AT84</u>			
AT847672	11	7' GRASS	....
AT847677	4	GOOD, 5' GRASS	....
AT844673	2	GOOD, 2' GRASS	....
AT840674	1	GOOD, LOW BRUSH	....
AT846686	1	GOOD, 8' GRASS	....
AT848688	1	FAIR, LOW SHRUB	....
AT847689	2	GOOD, LOW SHRUB	....
AT849693	2	GOOD, 8' GRASS	....
AT844691	M	GOOD	....
AT848697	1	GOOD, 3' GRASS	....
AT846691	1	GOOD, 3' GRASS	....
AT842690	3	GOOD, 4' GRASS	....
AT8470		MANY LZ'S	....
AT842714	2	GOOD, 2' BRUSH	....
AT847717	2	GOOD, DRY PADDY	....
AT848714	2	GOOD, 3' GRASS	....
AT846714	2	GOOD, LOW BRUSH	....
AT840725	4	GOOD, 10' GRASS	....
AT846728	6	GOOD, 4' GRASS	....
AT842724	2	GOOD, 4' SHRUB	....

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
AT843728	2	GOOD, 3' GRASS	....
AT841731	1	GOOD, 6' GRASS	....
AT843733	1	GOOD, 6' GRASS	....
AT841743	1	GOOD, 3' BRUSH	....
AT846748	1	GOOD, GRASS	....
AT845744	1	GOOD, 2' GRASS	....
AT 848767	1	GOOD, 10' GRASS	....
AT841762	1	FAIR, CUT	....
<u>AT85</u>			
AT850607	M	GOOD, 6' GRASS	....
AT852613	1	GOOD, LOW GRASS	....
AT854614	M	GOOD, LOW BRUSH	....
AT857621	1	FAIR, 4' GRASS	....
AT850627	1	FAIR, 5' SHRUB	....
AT856645	1	GOOD, BARE	....
AT852649	1	GOOD, 2' GRASS	....
AT851652	1	GOOD, 6' BRUSH	....
AT854650	M	GOOD, 3' GRASS	....
AT856655	M	GOOD, VALLEY FLOOR	....
AT855652	M	GOOD, FLAT	....
AT857655	M	GOOD, VALLEY FLOOR	....
AT854662	M	GOOD, OPEN AREA	....
AT850660	1	GOOD, BOMBED OUT	....
AT856665	M	EXCELLENT, 6' GRASS	....
AT857678	1	POOR, 7' WATER	....
AT851698	1	FAIR, MARSHY	....
AT854712	2	GOOD, GRASS	....
AT853751	2	GOOD, LOW SHRUB	....
AT857734	1	GOOD, ROAD	....
AT851743	2	GOOD, 1' GRASS ON HILLTOP	....
<u>AT86</u>			
AT861614	3	GOOD, 3' GRASS	....
AT866626	1	GOOD, 3' GRASS	....
AT862626	1	GOOD, 2' GRASS	....
AT868634	1	GOOD, 8' GRASS	....
AT862643	1	BOMB CRATER	....
AT867646	1	GOOD, 6' GRASS	....
AT864652	4	GOOD, 3' GRASS	....
AT867658	M	GOOD, LOW GRASS	....
AT863656	1	GOOD, 3' GRASS	....
AT863665	2	FAIR, STUMPS	....
AT866665	1	FAIR, 3' GRASS	....
AT861685	4	OLD RICE PADDY	....
AT862687	2	GOOD, 4' GRASS	....
AT865681	1	GOOD, HILLTOP	....

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<u>GRID</u>	<u>SIZE</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>AT87</u>			
AT879595	1	GOOD, 3' SHRUB	....
AT877625	1	GOOD, 3' SHRUB	....
AT871622	1	GOOD, 3' SHRUB	....
AT871675	1	GOOD, 2' GRASS	....
AT872626	M	FAIR, 4' GRASS	....
AT871675	1	GOOD, 2' GRASS	....
AT878674	1	GOOD, 3' GRASS	....
AT875648	1	GOOD, 3' GRASS	....
AT873651	M	GOOD, OPEN AREA	....
AT878650	4	GOOD, 3' BRUSH	....
AT870656	1	GOOD, 4' GRASS	....
AT876675	M	GOOD, BARE	....
AT873672	2	GOOD, VALLEY FLOOR	....
AT879678	2	GOOD, 3' GRASS	....
AT872680	1	GOOD, 3' SHRUB	....
<u>AT88</u>			
AT881627	2	GOOD, SMALL 3' GRASS	....
AT886626	1	GOOD, LOW GRASS	....
AT889635	1	GOOD, 3' BRUSH	....
AT888667	5	GOOD, 3' GRASS	....
AT882665	2	GOOD, 2' SHRUB	....
AT889671	2	SWAMPY, 3' GRASS	....
AT884717	1	GOOD, LOW GRASS	....
AT882742	1	POOR, VERY TIGHT	....

Note: "M" designates HLZ's capable of accommodating several helicopters.

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## VILLAGES/HAMLETS

1. <u>DAI LOC (DISTRICT)</u>	<u>LOCATION</u>	<u>POPULATION</u>
a. LOC CHANH (VILLAGE)	AT 920610	
PHU BAC (H)	AT 926608	318
PHU TRUNG (H)	AT 919597	525
DONG HAI (H)	AT 927610	247
b. LOC AN (VILLAGE)	AT 900590	
xx DAI AN (H)	AT 898599	415
NGHIA TAY (H)	AT 882587	571
** DUC HOA (H)	AT 895588	210
xx DAI LOI	AT 898593	225
xx HOA TAY	AT 902587	171
** NGHIA BAC (H)	AT 900584	411
NGHIA TRUNG (H)	AT 904573	965
PHIEM AI (H)	AT 898568	969
NGHIA DONG (H)	AT 910580	3,429
** HOA DONG (H)	AT 913592	604
c. LOC MY (VILLAGE)	AT 860575	
** MY THUAN (H)	AT 860575	284
MY LIEN (H)	AT 887573	1,028
DAI PHU (H)	AT 880572	885
TRUONG AN (H)	AT 873572	845
SONG BINH (H)	AT 876583	485
** MY AN (H)	AT 865575	620
** TAM HOA (H)	AT 863573	1,500
xx HOA THACH (H)	AT 855565	399
xx DONG LAM (H)	AT 845565	608
xx PHUONG TRUNG (H)	AT 835555	358
d. LOC HOA (VILLAGE)	AT 870552	
* TRUNG LAM (H)	AT 806551	1,550
e. LOC TAN (VILLAGE)	AT 840540	
* MY HAO (H)	AT 856654	2,426
f. LOC QUANG (VILLAGE)	AT 810560	
* VINH PHUOC (H)	AT 809548	20
* HA NHA (H)	AT 800548	31
xx LAM PHUNG (H)	AT 809551	205
xx BOI TAN (H)	AT 815553	14
xx PHU HUONG (H)	AT 830558	90
xx PHUOC LOC (H)	AT 805560	22
xx AN DINH (H)	AT 811566	71
* LOC PHUOC (H)	AT 816558	111
* LAM TAY (H)	AT 797561	22

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## VILLAGES/HAMLETS

<u>2. THUONG DUC (DISTRICT)</u>	<u>LOCATION</u>	<u>POPULATION</u>
a. LOC BINH (VILLAGE)	ZC 150534	
xx DAI MY (H)	ZC 105566	
xx THANH DAI (H)	ZC 110560	
xx THAI SON (H)	ZC 113563	
xx MAO LAM (H)	ZC 122557	
xx CHAN SON (H)	ZC 140557	
xx TRUNG DAO (H)	ZC 130554	
xx TRUC HAI (H)	ZC 135554	
xx HOANG PHUOC BAC (H)	ZC 145548	
HA TAN (H)	ZC 150534	9,483
** DAI AN (H)	ZC 158542	536
** DUC TAY (H)	ZC 158542	310
** TINH DONG TAY (H)	ZC 166545	768
b. LOC VINH (VILLAGE)	ZC 170530	
xx NGOC KINH (H)	ZC 143523	
xx HOA HUU (H)	ZC 144524	
xx TAM HIEPA (H)	ZC 195550	
c. LOC NINH (VILLAGE)	ZC 110505	
xx DAI HIEP (H)	ZC 100503	
xx DIEN HIEP (H)	ZC 112505	
* TRUNG HIEP (H)	ZC 05507	273
d. HAMLETS (NFI)		
DU (H)	ZC 035603	
FUONG THAI (H)	ZC 121560	
RU MUA (H)	ZC 016650	
SUNG (H)	ZC 080674	
SUNG DUNG (H)	ZC 077666	
TA VI (H)	ZC 050663	
VIEU (H)	ZC 039611	
VIEU DUNG (H)	ZC 022608	

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## VILLAGES/HAMLETS

3. HIEU DUC (DISTRICT)	LOCATION	POPULATION
a. HOA NINH (VILLAGE)	<b>MC 875777</b>	
xx PHUOC SON (H)	AT 886760	
xx HOA TRUNG (H)	AT 847777	
xx AN SON (H)	AT 961736	
HOA NINH (H)	AT 899772	584
b. HOA LOC (VILLAGE)	<b>MC 909571</b>	
XUAN LOC (H)	AT 903741	474
PHO THUONG THON (H)	AT 905764	634
c. HOA PHU (VILLAGE)	<b>MC 925727</b>	3,773
** THAI LAI (H)	AT 919727	294
x NINH AN (H)	AT 915712	315
** THUOC DONG (H)	AT 910723	374
d. HOA THUONG (VILLAGE)	<b>MC 943701</b>	
* KHUONG MY (H)	AT 910690	100
AN TAN (H)	AT 926705	331
xx HOI PHUOC (H)	AT 878708	
AN TAN REFUGEE CAMP	AT 931706	435
e. HOA HUNG (VILLAGE)	<b>MC 945690</b>	
xx THACH BO (H)	AT 866698	
** CAM TOAI TAY (H)	AT 930687	757
f. VILLAGES (NFI)	<b>MC 920740</b>	
HOA THANH (V)	AT 902683	
AN CHAU (V)	AT 878700	
CAY SUNG (V)	AT 896680	
DONG BICH (V)	AT 879683	
FUOC GIANG (V)	AT 911675	
FUOC NINH (V)		
g. HAMLETS (NFI)		151
TUNG SON (H)	AT 898778	
AN LOI (H)	AT 847718	
AN NGHIA TRUNG (H)	AT 846777	
BA NA (H)	ZC 205709	
BA NA XA DENG (H)	ZC 120726	
BINH THAI (H)	AT 884714	
DEO ONG GAM (H)	AT 895771	
DONG BICH (H)	AT 886686	
DONG SON (H)	AT 866760	
FU HA (H)	AT 912735	
FU HOA (H)	ZC 164656	
FU HUEY (H)	ZC 194664	
FUC HUNG (H)	AT 919726	
HAI LAI (H)	AT 935716	

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## VILLAGES/HAMLETS

(CONTD)

DAI LAC DISTRICT (CONTD)LOCATIONPOPULATION

MANG SON (H)	AT 859633	
MY SON (H)	AT 881767	
PU SONG (H)	ZC 168695	
PU NEO (H)	ZC 110706	
h. VILLAGES (NFI)		
AN DINH (V)	AT 798562	
AN DINH (V)	AT 810568	
FU QUAN (V)	AT 911609	
FU THU (V)	AT 862578	
HOA QUAN (V)	AT 902589	
TRUC HA (V)	ZC 134554	
i. HAMLETS (NFI)		
TICH PHU (H)	AT 926607	678
AN MY (H)	AT 927608	150
DAI FUOC N (H)	AT 852564	
FU SON (H)	AT 880574	
FU THONG KH (H)	AT 856746	
MY THING (H)	AT 863574	

NOTE: \*\* DISPUTED

\* VC

xx ABANDONED

x UNVALUATED

NFI NO FURTHER INFORMATION AVAILABLE.

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UNIT	S.R.	WEAPONS	IBN'S	AKA'S	PERSONALITIES
17th Mort Company	80-90 (Feb69)	6x82mm Mort	Unknown	Unknown	CO: Pham Van BAC, Lt. (Feb69)  XO: MIEU (Feb69)  PO: DIAC (Feb69)
18th Comm Company	30-40 (Feb69)	10xK63 radios 20xChicom Field Phones	Unknown	Unknown	CO: NUAN, Lt  XO: HUONG, Lt  PO: HOAT, Lt
19th Engr Company	20-30 (Feb69)	AK's, Picks and Shovels	Unknown	Unknown	Unknown
20th Med Company	15-20 (Feb69)	2xDr's	Unknown	Unknown	CO: Dr. TICH, Capt
21st AA Company	20-30 (Feb69)	6x12.7AA's	Unknown	Unknown	XO: SPIT (Medic) CO: TUYEN, WO  XO: HOANG, WO (Feb69)  PO: THO, WO (Feb69)

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UNIT	STR	WEAPONS	IBN'S	AKA'S	PERSONALITIES
22nd Recon Company	20-30 (Feb69)	AK'S	Unknown	Unknown	CO: THUONG, Lt XO: HOA, Lt PO: THO, Lt
23rd Trans Company	30-40 (Feb69)	AK'S	Unknown	Unknown	CO: KHOA (Feb69) PO: CUO, Lt
24th Sapper Company	70-80 (Feb69)	AK'S	Unknown	Unknown	CO: LAM (Feb69) XO: LUYEN (Feb69) PO: TOI (Feb69)
1st Bn, 141st Regt	300 (Feb69)	82mm Mort 75mm RR's B-40's MG's CKC's AK's 60mm Mort	Unknown	11th Inf Bn Phu Thong Bn A-1 Bn 1st Bn D.14	CO: CON, Capt (Feb69) XO: TU, Sgt (12 Oct 68) PO: SAN, Sgt (Feb69) APO: THANH, Sgt

ENCLOSURE (10)

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UNIT	STR	WEAPONS	LBN'S	AKA'S	PERSONALITIES
1st Company	Unknown	Unknown	Unknown	Unknown	CO: Nguyen-Van TRU (12Oct68) XO: Nguyen-Van LUAT (12Oct68)
2nd Company	40 (Oct68)	1x B40 per sqd AK's, CKC's	74213 Ap Bac	Unknown	CO: Nguyen-Van TUC (12Oct68) XO: Bui Chi MINH (12Oct68) PO: Bui Van PHUONG (12Oct68)
3rd Company	Unknown	Unknown	Unknown	Unknown	Unknown
5th Company	122 (3Nov68)	82mm Mort 60mm Mort MG's AK's SKS's B-41's	74214CX	Unknown	CO: MANC- (Nov68) XO: TO - (Nov68) PO: KEM - (Nov68) APC: KY - (Nov68)

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UNIT	STR	WEAPONS	IBN'S	AKA'S	PERSONALITIES
2nd Bn, 141st Regiment	300 (Feb 69)	Unknown	Unknown	16th Inf Bn D.15	CO: MAO, Capt (Feb 69)  XO: SANG, Capt (Feb 69)  PO: PUOU - (Feb 69)
6th Company	Unknown	Unknown	Unknown	Unknown	Unknown
7th Company	Unknown	Unknown	Unknown	Unknown	Unknown
8th Company	Unknown	Unknown	Unknown	Unknown	Unknown
10th Company	Unknown	Unknown	Unknown	Unknown	Unknown
3rd Bn, 141st Regiment	300 (Feb 69)	36xRPD's 2xMG's 2x82mm Mort 3x60mm Mort 12xB40's 3xB41's AK's SKS's	7475 NVN	428th Inf Bn D.16	CO: CANH, Sr-Capt (Feb 69)  XO: RINH, Capt (Feb 69)  PO: UONG, Lt (Feb 69)  APO: TAN (Feb 69)

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UNIT	SIR	WEAPONS	LBN'S	AKA'S	PERSONALITIES
11th Company	70 (Feb 69)	2x BAC's	Unknown	Unknown	CO: CU (Feb 69)
		3x LMG's			XO: VIET (Feb 69)
		AK's CKC's 1x 30 Cal 1x 82mm Mort			PO: CONG (Feb 69)
12th Company	Unknown	Unknown	Unknown	Unknown	CO: HAY (Feb 69)
					XO: THUONG (Feb 69)
13th Company	Unknown	Unknown	Unknown	Unknown	PO: CU (Feb 69)
					CO: CHAU (Feb 69)
					XO: WAN (Feb 69)
					PO: CHANH (Feb 69)

PHOTOCOPY (10)

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UNIT      SUP      WEAPONS      MEN'S      AKA'S      PERSONALITIES

15th Company	60 (Feb 69)	RPD's B-40's 60mm Mort SKS's AK's	Unknown	Unknown	CO: THIEN (Feb 69)  XO: MIEU (Feb 69)  PO: DAC (Feb 69)
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a. Area of Operation. By the nature of its subordination to Front 4, it can be assumed the regiment could operate throughout Quang Nam Province. However, the unit limited its operations to the vicinity of Thuong Duc Special Forces Camp until February 69, when it moved to the western periphery of the Danang vital area, subsequently it conducted small scale attacks against the Tuy Loan area and vicinity, on 22 Feb 69.

## b. Movements.

## (1) Regimental Headquarters

<u>DATE</u>	<u>LOCATION</u>
May 68	YC 760900
June 68	AT 797523
30 June 68	ZC 155485
22 July 68	ZC 058598
3 Oct 68	ZC 107522
12 Oct 68	ZC 189561
12 Oct 68	ZC 1547 (Hill 1026)
12 Oct 68	ZC 150490
17 Nov 68	ZC 190560
25 Nov 68	ZC 180570
26 Nov 68	ZC 175610
9 Jan 69	AT 890686
11 Jan 69	ZC 1962
23 Feb 69	AT 927667
25 Feb 69	AT 924665 (17th Mort Co)
26 Feb 69	AT 958669 (21st AA-Co)
26 Feb 69	ZC 200604 (Hill 1062) (for approx 5 mo.)

## (2) 1st Battalion

<u>DATE</u>	<u>LOCATION</u>
25 Nov 68	ZC 185578
16 Oct 68	ZC 0951 & ZC 1052 (Hill 551)
25 Feb 69	AT 957667 (1st Co)

## (3) 2nd Battalion

<u>DATE</u>	<u>LOCATION</u>
25 Nov 68	AT 800490
23 Feb 69	AT 924693 (7th Co)

## (4) 3rd Battalion

<u>DATE</u>	<u>LOCATION</u>
12 Oct 68	ZC 150580 & ZC 076635
25 Nov 68	ZC 185578
23 Feb 69	AT 937900 (11th Co)
24 Feb 69	AT 957667
25 Feb 69	AT 957667
26 Feb 69	Dai Loc Mountain area

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## c. Contacts.

- 29 Sept 1968 The regiment overran an OP at Thuong Duc Special Forces Camp vicinity (ZC 143535). Enemy losses were 67 KIA's.
- 03 Oct 1968 Elements of the regiment attacked a friendly OP on Hill 551 (ZC 107522).
- 12 Oct 1968 The 1st Battalion attacked friendly night defensive position (ZC 189561). Enemy losses were 31 KIA's.
- 23 Feb 1969 The 3rd Battalion attacked Hieu Duc District Headquarters engaging in hand to hand combat with elements of the 7th Marine Regiment.
- 25 Feb 1969 A PW from the 3rd Battalion stated that his unit had participated in attacks in A Shau Valley, Thuong Duc and Tuy Loan area. (dates unknown).

d. Logistics. In the 141st Regiment, the 23rd Transportation Company is responsible for logistical support. Foodstuffs, purchased mainly from the Phu Thuan Market (AT 903528) and Ha Nha (3) Hamlet (ZC 210553) are normally insufficient, necessitating strict rationing. Trips for the purchasing of this food are usually made every seven to ten days. Weapons, ammunition and medical supplies are brought from North Vietnam through the A Shau Valley into Quang Nam Province. The 23rd Company probably picks up these supplies from storage points established by the 220th Transportation Regiment of Front 4. Medical supplies, according to the XO of the 141st Regiment, are insufficient but adequate prophylaxis is available. Fifteen to twenty personnel per week are medically evacuated from the regiment suffering from malaria and other ailments.

e. Tactics. Training for the regiment in NVN was conducted in two phases; infantry and field training. Infantry training lasted for one month and included rifle marksmanship, grenade throwing and drill. Field training consisted of patrolling, attacking fortified positions and conducting ambushes. The Regiment trained as a unit in South Vietnam during periods of rest. The Regimental Executive Officer recently stated that present tactics include using a few forces to harass important bases, employing sapper tactics in secret attacks, deploying strong forces to fight mobile reactionary troops, and creating conditions for night fighting.

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f. When attacking a camp, the initial objective is to destroy the headquarters element, thus cutting off communication with units inside and outside the camp. Additionally, the Executive Officer stated that U.S. Army Field Manuals have been translated into Vietnamese and are used for training purposes.

g. Combat Efficiency. The 141st Regiment arrived in South Vietnam with an approximate strength of twenty-three hundred personnel. Due to desertions, malaria, and combat losses, this strength has diminished to its present level of fifteen hundred (combat effective ~~above~~ hundred). Except for recent action in the Tay Loan area, they have not been in contact since mid-October. They have had an opportunity to retrain and refit, as well as to allow inexperienced troops to gain combat experience during the recent attacks in the Tay Loan area. Morale of the unit, according to PW's is above average for NVA units in Quang Nam Province at the present time. All considered, the 141st Regiment can be expected to fight well when engaged by Allied Forces.

## h. COB Comments.

a. The 3rd Battalion, possibly the 2nd Battalion and elements of the support companies incurred an unknown number of casualties in the oil well area in February 1969. Due to the lack of information to the contrary, the unit should still be considered as combat effective.

b. The location of the Regiment and its subordinate elements can not be pin-pointed due to the recent movement and activities of its units. The Regiment and at least one of the Battalion CP's were last reported in the vicinity of (ZC 130595).

c. The Regimental Executive Officer mentioned the existence of a 4th Battalion (4th - B.17) that was tasked to train newly received troops. Strength of the battalion is small as it is only a skeleton training battalion; however, this unit should be considered as having a reinforcement capability.

d. Recent replacements of four to five hundred personnel may have joined the Regiment as indicated by the interrogation of the Executive Officer. Presently, no other intelligence is available to confirm or discount this information.

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2. 31st NVA REGIMENT

UNIT	STR	WEAPONS	AREA'S	IBN'S	PERSONALITIES
31st Regiment	1,300 (20Feb69)	Dak no. AK-47's, 57mm RR's, 75mm RR's, RPG-2's 7.62 HMG's, 82mm Mort, RPG-7's, SKS's, 12.7 HMG's, K-54's.	Song Huong Regt Unit 550 Infil Grp 150X P.25 Regt Red River Regt 213 Regt 213B Regt 673 Regt E31 Regt 150A Regt Worksite 31 152 Regt CT 31 4th Regt Son Na May First Worksite 1st Regt 2nd Regt EBB 31	31442IB 2449 KT 31457KT 6677 Ap Thai P6270 Ap Thai 3134 KT 34450 CS 1259 Nam Ba M.50 30442ZB	CO: Vo KOC (27Feb69) XO: THANH, Ma (27Feb69) PO: WONG, Etc (20Feb69)
16th DKZ Company	65 (13Sept68)	2x57mm RR's, 1x82mm Mort	K16 DKZ/RR Co EBB3/P2	6277 Ap Thai 6577 Ap Thai	CO: Vuong Kim VONG (26July68) XO: Phan Cong Tien (25Jul68) PO: Phan Thanh CAN (26Jul68)

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UNIT STR WEAPONS AKA'S LBN'S PERSONALITIES

17th Mort Company	60 (27Feb69)	3x82mm Mort	K-17 C-17	6276 Ap Thai 6678 Ap Thai 169121B (NVN)	CO: Lay Van DUOC (26Jun68) XC: Phan Thanh UT (26Jun68) PO: LONG - (26Jun68)
18th Comm Company	60 (27Feb69)	9xTP's, 6x2watt radios	K-18 C-18	6279 Ap Thai 6679 Ap Thai	CO: Nguyen Van LAP PO: LIEN, Capt (23Sept68)
19th Engr Company	110 (13Sept68)	Unknown	K-19 C-19	6280 Ap Thai 6680 Ap Thai	CO: Nguyen Van DAI (23Sept68)
20th Med Company	90 (13Sept68)	Unknown	K-20 C-20	6282 Ap Thai 6682 Ap Thai	CO: Nguyen Van DUONG
21st AA Company	30 (27Feb69)	4x12.7 HMG's, 2xAK47's	K-21 C-21	6282 Ap Thai 6682 Ap Thai	CO: Tran Huu HOA PO: Nguyen Thanh NGOAN
22nd Trans Company	35 (27Feb69)	Unknown	K-22 C-22	6283 Ap Thai 6683 Ap Thai	Unknown
23rd Recon Company	45 (27Feb69)	2xAK47's	K-23 C-23	6284 Ap Thai 6684 Ap Thai	CO: Phan Thanh IUMN XO: Hoang Minh LE (27Feb69) PO: MINH

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UNIT	STR	WEAPONS	AKA 'S	LBN'S	PERSONALITIES
24th HQ Company	40 (27Feb69)	Unknown	K-24 C-24 24th Sec Rear Co	6285 Ap Thai 6685 Ap Thai	Unknown
23rd Sapper Company	45 (27Feb69)	3xB40 RL's, 14xAK47's 4xPistols	K-25 C-25	6286 Ap Thai 6686 Ap Thai	CO: Phan Van DO (27Feb69) XO: Le Dor LOC (27Feb69) PO: Nguyen Viet THE (27Feb69) APO: KHAI
26th M&R Company	Unknown	Unknown	K-26 C-26	6287 Ap Thai 6687 Ap Thai	Unknown
102nd Bn, 31st Regt	140 (Jan69)	Unk no. AK47's, SKS's, 3xB40's, 3xB41's, 9x RPD's, 3x60mm Mort Explosives and Gas	F.8 En 8th Bn 2nd Bn Song Haoc 23rd Special Grp	6671 Ap Thai 6690 Ap Thai 31448 XB 9145 VB 6687 Ap Thai 6287 Ap Thai 219 Anh Dung	CO: TRAN VAN LUY (23Feb69) XO: Tran Minh SON (23Feb69) PO: Nguyen Dinh KHAI

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UNIT	STR	WEAPONS	AKA'S	LEN'S	PERSONALITIES
5th Co, 102nd Bn	40 (11Feb69)	3xB40's, 6xAK's, 9xAK's, 1st Rifle Co 1x82mm Mort, 3xHMG's		6688 Ap Thai 6288 Ap Thai 6050 Ap Thai 31450 IB 31468 XB	CO: <del>SAU</del> , 1stLt (3May68) IO: CHUONE, 2ndLt (3May68) PO: Nguyen TANG, 1stLt (3May68) APO: Nguyen Trong QUAN (3May68)
6th Co, 102nd Bn	40 (23Feb69)	7xRPD LMG's, 3xB40's, 1xB41, 2x60mm Mort, 3x AK's, 3xCIC's	2nd Co Fire Power Co MG Co	6689 Ap Thai 6289 Ap Thai	CO: Nguyen Van DAT (27Feb69) IO: Nguyen Van SAU (27Feb69) PO: Nguyen Van THUC (27Feb69)
7th Co, 102nd Bn	40 (23Feb69)	18xAK's, 3xCIC's, 2xRPD LMG's, 3x82mm Mort, 3x 60mm Mort, 3xB40's	K-7 C-7 3rd Co 81&82mm Mort Co	6690 Ap Thai 6290 Ap Thai	CO: LINH, 1stLt (20Jan69) IO: VI, 2ndLt (20Jan69) PO: MANH, 1stLt (20Jan69)
8th Co, 102nd Bn	20 (28Dec68)	18xAK's, 2xRPD LMG's	4th Co K-8 Co	6691 Ap Thai 6291 Ap Thai	CO: MAI (11Aug68) IO: THOAN (11Aug68) PO: TY (11Aug68)

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UNIT	SIR	WEAPONS	AKA'S	IBN'S	PERSONALITIES
103rd Bn, 31st Regt Bn	250 (4 Jun 68)	6xRFG's, 2xAK47's, 2x Chicom Gren per marr, 10x B-40's, 2xB41's, 2x60mm Mort	9th Bn 3rd Bn 150B Infil Grp H-3AA Bn K-103 Thu Bon Binh Thien Ha Bien D.3 D.9 Infil Grp 150E	6692 Ap Thai 6292 Ap Thai	CO: THANH, Capt (20Feb69) XO: GIAI, Capt (20Feb69) PO: TA, Capt (20Feb69)
9th Co, 103rd Bn	40 (29 Jan 69)	1xRFG-10, 1xField Radio	K.9 C.1 1st Co	6693 Ap Thai 6293 Ap Thai	CO: LAM, SrLt (3Feb69) XO: CHUONG, Lt (3Feb69) PO: PHUONG, Lt (3Feb69)
10th Co, 103rd Bn	50 (29 Jan 69)	4xRadios Unk Type, 60mm Mort, 1xRFD, 1xSMG, 1x BAR, 1xLMG, 1xRMG, 1x 82mm Mortar, 5xB40's	K.10 C.2 2nd Co	6694 Ap Thai 6294 Ap Thai	CO: THANH, JrLt (3Feb69) XO/PO: Hieu, JrLt (3Feb69)
11th Co, 103rd Bn	80 (4 Jun 68)	?x 82mm Mort	K.11 C.3 3rd Co	6695 Ap Thai 6295 Ap Thai	XO: BONG, W.O. (25 Nov 68) PO: DUC, 2ndLt (25 Nov 68) APO: NONG, W.O. (25 Nov 68)

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UNIT	STR	WEAPONS	AKA'S	IBN'S	PERSONALITIES
12th Co, 103rd Bn	80 (4 Jun 68)	12.7mm MG's 2182mm Mort 32MG's 72AK-47's 3AK54	K-12 C-4 4th Co	6696 Ap Thai 6296 Ap Thai	CO: NGHIEU, 2dlc (25 Nov 68) XO: THANH, N.O. (25 Nov 68) PO: HONG, N.O. (25 Nov 68)

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a. Area of Operation. The 31st NVA Regiment's normal operational area includes the Districts of Hoa Vang and Hieu Duc. Recent PW's and documents corroborates the Regiment's presence in that area.

b. Movements. The areas identified are previously reported locations of the regiment and/or its subordinate units.

## (1) Regimental Headquarters

<u>DATE</u>	<u>LOCATION</u>
Sep 68	Area AT8065, 8265, 8267, 8067
4 Sep 68	ONDR Mass: AT8165
29 Sep 68	AT834658
20 Nov 68	AT855663
22 Nov 68	AT915616
17 Dec 68	AT810820
11 Jan 69	AT820710
11 Jan 69	AT 8262
19 Jan 69	AT862632 to AT863638
19 Jan 69	20106640
23 Feb 69	AT8166
23 Feb 69	AT8566
23 Feb 69	AT865646

## (2) 102nd Battalion

<u>DATE</u>	<u>LOCATION</u>
17 Dec 68	AT815825
11 Jan 69	AT82711
11 Jan 69	Natural caves vicinity AT798698, AT822705, AT814704
11 Jan 69	AT82711

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DATE                      LOCATION

11: Jan 69                      AT807628

23 Feb 69                      AT865646

## (3) 103rd Battalion

DATE                      LOCATION

11: Jan 69                      AT805625

19 Jan 69                      AT863632, AT832638, and AT830630

29 Jan 69                      AT8065

c. **Contacts.** The following are contacts within the study area attributed to elements of the 31st NVA Regiment.

- Aug 1968 - Elements of the 9th Company, 103rd Battalion attacked Tuy Loan (H) (AT 9370). An unknown number of support personnel were to attack Hill 327 but aborted the mission.
- 11 Sep 1968 - At 1030H a recon team observed 200-400 men at (ZC 196635).
- 17 Nov 1968 - The 103rd Battalion engaged a tank platoon at (AT 948703). A PW captured during the action stated the 10th Company led the attack. The 11th and 12th Company were unable to penetrate the perimeter and the 9th Company became lost.
- 20 Nov 1968 - At 1020H, a company sweep received small arms, automatic weapons, RPG, M-79 and 60mm mortar fire from an estimated enemy company occupying fortified positions at (AT 872594).
- 11 Jan 1969 - Elements of the 102nd Battalion attacked Tuy Loan (AT 9370). The unit was forced to retreat.
- 22 Feb 1969 - Elements of the 102nd Battalion, with organic support companies attacked the 26th Marines, CP, Hill 327 and artillery positions.

d. **Logistics.** Reportedly a months supply of food is maintained in base areas. The normal basis load of ammunition is 400 rounds per AK-47 rifle and 300 rounds per SKS semi-automatic rifle. The 103rd Battalion is reported to have been resupplied with AK-47, SKS and RPD ammunition on the Ong Tau Slope in December 1968.

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(1) The 103rd Battalion has not been identified in recent contacts; therefore, its logistical readiness state should be considered at satisfactory.

(2) Although in recent contact, the basic load of ammunition per weapon within the 102nd battalion is expected to remain unchanged.

e. Prior operations in the 31st Regiment's area of operations have uncovered caches and base areas at the following locations:

AI805628	2Jun68
ZC207641	4Jun68
ZC211624	11Jun68
ZC211625	12Jun68
ZC123653	20Jun68
ZC138647	21Jun68
ZC127643	21Jun68
ZC034656	25Jun68
ZC097657	25Jun68
ZC087650	28Jun68
ZC035663	23Jun68

f. Elements of the 31st Regiment usually move during the hours of darkness. Moving in column, utilizing recon unit in front for scouting purposes, only one company displaces at a time. Members of the regiment camouflage themselves when moving during daylight hours.

(1) Camps are normally established near streams. Their OP's consist of two or more personnel and are usually posted at points of approach in the periphery of the unit area.

(2) The regiment habitually stresses the employment of small units whether against targets or fighting a delaying action. The virtual annihilation of the K-o Company, 31st Regiment while fighting a delaying during Operation Hame Luke Thrust is evidence of such employment of forces.

(3) From December 1967 through December 1968 the 103rd Battalion was the active battalion. Commencing 23 February 1969, the 102nd Battalion has been the engaging force of the regiment supported by five support companies. This is consistent with earlier interrogation report of a PA who revealed the 102nd Battalion was undergoing sapper

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training.

g. Combat Efficiency

(1) The morale of the regiment is about average for NVA units in Quang Nam Province at the present time. All PW's from the unit speak of the normal fears of artillery, bombing and dying. A lack of medical supplies has caused a high incidence of illness. All considered, however, the unit must be considered an effective fighting unit. The units are well controlled by their particular political officers. Two incidents in the 31st Regiment point this out: (1) A document revealed that a company commander, ordered to fight a delaying action against PW/MF personnel, withdrew his company before receiving permission by his superior. He was severely denounced; and (2) in November, an interrogation of a lieutenant from the 10th Battalion, captured in the Tuy Loan area, revealed that he had been shot by his own political officer for not accomplishing his mission.

h. OOB Comments

(1) The 31st Regiment has shown signs of unwillingness to sustain any long contacts.

(2) Although the regiment suffered an undetermined number of casualties during February 1969, it should be considered as combat effective.

(3) The location of the regiment and its subordinate elements is not exact due to the movement and activities of its personnel to the west of Danang Vital Area pursuant to the offensive launched 23 February 1969. Center of mass for the regiment is probable location is (MT 8262).

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3. 368B NVA REGIMENT

UNIT	STR	WEAPONS	AKA'S	IPW'S	PERSONALITIES
368B Regiment	1,380 (11Jan69)	Unknown	575 Arty Regt Cong Trinh Arty Unit, 204 Regt, Binh Minh Work- site, Infil Grp 375	6500 Ap Binh 6306 6500	CO: CHAU, Mai PO: KHUAT, Mai (20Dec68)
Med Company	30	Unknown	Unknown	Unknown	Med Off: HOANG, Sp Lt (20Dec68)
CL4 Recon and Signal Company	25	Unknown	C-40 Company	6503 Ap Binh	CO: Le Tran Tuy PO: Tran HANH PO: Pham Minh (Jun68)
Trans Company	Unknown	Unknown	Unknown	Unknown	CO: DE (Jun68)

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UNIT	SIR	WEAPONS	AVIA'S	LBN'S	PERSONALITIES
1st Bn, 368B Regt	300 (16Feb69)	2x1140mm Rockets	D.99 Bn, D.1 Bn 99th Bn	6504 Ap Binh P6804 Ap Binh	CO: An Van TOAN IO: PHUC PO: TRONG (16Feb69)
1st Co, 1st Bn	60 <sup>m</sup> (16Feb69)	3xAK-47's, 1x1140mm Rkts	K-1 Company	Unknown	CO: TRONG IO: KHIEM PO: AM
2nd Co, 1st Bn	60 <sup>m</sup> (16Feb69)	1x1140mm Rockets, 6xArty Pieces (MFI), 30xAK's, 2xCKC's	K-2 Company	Unknown	CO: Nguyen Van TOAN IO: Nguyen Van THANH PO: Do-Van VAN (16Feb69)
3rd Co, 1st Bn	60 <sup>m</sup> (16Feb69)	1x1140mm Rockets, 1xB40 1xAR, 33xAK47's, 16x CKC's,	K-3 Company	177 Ap Binh 137 Ap Binh	CO: Tran Trong KHIEM IO: Tran Quoc BAC PO: Kieu VI BOI (20Jul68)
2nd Bn, 368B Regt	300 (16Feb69)	2x1140mm Rockets	57th Bn, 577th Bn, 566th Bn, 5th Bn, D-2 Bn, 91st NVA Div, C11 Co, E1, C10	HT 20551 6508 Ap Binh 6303 Ap Binh 6306 Ap Binh	CO: MINH (29Dec68)

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COMPONENT	SIR	VEHICLE	AKA'S	IBN'S	PERSONALITIES
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4th Co, 2nd Bn	94	3rd Army Trucks, 9x11M7's, 1xM7, 1xB40, 12xM9's	CFO Battery	Unknown	OC: Tran THO XC: Phan Thai BINH FC: Doan Quang LICH (13Jul68)
5th Co, 2nd Bn	95 (17Jun68)	2xM54's, 1xM7, 1xB40	C11	F603 'p Binh	OC: Tran Van MUNG XC: Nguyen Tai TRU FC: Nguyen Ho SANG (27Jul68)
6th Co, 2nd Bn	98 (17Jun68)	1xM7	C12	Unknown	OC: Pham Van GIAC XC: Tong Van TAM FC: Pham Dinh THINH (27Jun68)

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a. Area of Operation. The 368B Regiment characteristically operates throughout northeastern Quang Nam Province. The 1st Battalion is employed west of Darang, the 2nd Battalion southwest of Danang and the 3rd Battalion northwest of Danang. This widespread deployment provides the regiment with the capability of launching rocket attacks against the Danang vital area from numerous locations.

b. Movements. Listed below are previously reported locations/base areas. With the mission to support the 31st NVA Regiment, it is suspected that the regimental headquarters and 1st Battalion are located in the vicinity of the 31st Regiment's base area.

## (1) Regimental Headquarters

<u>DATE</u>	<u>LOCATION</u>
Dec 67	ZC 0568
8 Jan 68	ZC 2060

## (2) 1st Battalion

29 Dec 68	Dai Loc Mtns, Hieu Duc (D)
13 Feb 69	20 hour walk west from road vic AT 935 632

## (3) 2nd Battalion

8 Jan 68	ZC 2060
20 Jan 68	ZC 2062
29 Dec 68	ZC 0568

c. Logistics. Normal basic loads of individual weapon ammunition for the 1st Battalion was given in February 1969 as 100 rounds per AK-47 and 11x140mm rockets per launcher. Small arms ammunition is resupplied every 20 days and rockets are resupplied approximately every 15 days by civilian laborers. Specific routes used for rocket resupply are not known, but are probably identical to those shown on enclosure (11).

d. Tactics. Interrogation of rallier, Nguyen HUU, disclosed that the 2nd and 3rd Battalions have the same basic mission, but operate separately from each other. As one battalion initiates an attack by fire to support friendly forces, the other battalion will deploy to another launching position for a second attack in a different area. During operations, the 2nd and 3rd Battalions are accompanied by infantry elements as security. A survey team surveys three rocket sites 5 to 10 days prior to the date of an attack. Survey control points found on AMS L7014 series maps are utilized as a base point. From this base point, a 30°-60°-90° triangle is marked off, with the launch site in the center of each angle. The exact location of each launcher or mud ramp is marked by a pile of rocks and/or bamboo stakes. Rockets are then moved into the site via the jungles during the day and the lowlands at night.

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A captured enemy document states the following tactical scheme is employed:

- (1) Place various heavy weapons and artillery pieces at different locations and ranges to deliver many salvos of fire on an objective.
- (2) Employ fire power in coordination with infantry forces attacking an objective to prevent the enemy from escaping after being harassed by fire.
- (3) Deliver artillery fire on enemy bases, control the neighboring objectives and employ forces to stop the enemy search and sweep units which attempt to block the artillery unit's route of withdrawal.
- (4) Flexibility takes the initiative, ~~use~~ deliberate schemes and ~~tactical deceptive measures in accordance with each circumstance.~~

e. Combat Efficiency. The morale of the regiment is reported as being low due to shortage of food, poor living conditions, fear of artillery/air strikes and home sickness. Additionally, the lack of medical supplies has caused an increased rate of illness, especially malaria.

f. COB Comments. During the recent offensive the regiment has conducted numerous rocket attacks against the Darang vital area. This indicates that their present base area might have moved eastward of their normal base area.

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4. 83, LOCAL FORCE BATTALION, DAI LOC DISTRICT

UNIT	STR	WEAPONS	AKA'S	IPW'S	PERSONALITIES
Q83rd Bn, LF	130	1x82mm Mort, 3xAR15's 1x81mm Mort, 1x60mm Mort, 12xAK47's, 1x .30 Cal MG	Q14th Dai Loc (7) Unit Unit 74 H42 Company X64 H.54 Le Thanh Co	183 Anh Dung	CO: HAI - (10Oct68) XO: Le Van H AP (29Sept68) PO: Le Hung PHUNG (29Sept68) APO: Nguyen NAM (29Sept68)
1st Co, Q83rd Bn	Unknown	Unknown	Unknown	Unknown	CO: HUNG - (22Jul68) XO: CHC - (22Jul68) PO: Vo Van TRON G (22Jul68)
2nd Co, Q83rd Bn	Unknown	Unknown	Unknown	Unknown	Unknown

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a. Area of Operation. The Q-83rd Battalion and subordinate units are Dai Loc District Local Forces and are reportedly located in the vicinity of the following coordinates:

Q-83rd HQ - AT 8366  
1st Company - AT 9163  
2nd Company - AT 8866

b. Tactics. Elements of the battalion underwent a ten day military training course on 11 April 1968. The purpose of this course was to teach their infantry forces the use of explosive charges while attacking enemy headquarters, depots and bases. River crossing techniques were also taught. Contact with elements of the battalion has been more recent however, information regarding subsequent training and tactics is not available.

c. OOB Comment. The absence of PW's and documents from the Q-83rd Battalion precludes a more detailed analysis of its capabilities.

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UNIT	STR	WEAPONS	AKA'S	IRMS	PERSONNEL TYPES
5. H-3, HOA VANG DISTRICT FORCES					
H-3, HQ Company	150	Unknown	Q.03 Hoa Vang Dist Force HQ's Hoa Vang Dist Unit HQ's Poss Q.54	Unknown	Unknown
Q-84th Company	125	3x60mm Mort, 2x82mm Mort, 2xB-40's, 2x AK-47's, 2xK-50's, 2xB41's	Unit 73 H-16 Company Huyen Noi Dist 1 Unit X-17 K-36 Hoa-Vang (7) Unit Q-16 184th MF Company	184 Anh Dung	CC: Nguyen-Van MAN (21Feb69) VC: Le Huu-DONIC (21Feb69) PC: Ho Van-THO (21Feb69) ARC: Phung Hie t NINH (21Feb69)
Q-85th Company	90 (Feb69)	Unknown	Unit 74 Q17B Co Nam Giang Co H-31 Truong Duc Co Dist 2 Unit	185 Anh Dung	Unknown

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UNIT	SIR	WEAPONS	AKA'S	IRMS	PR. HQ/MAJ. JT/RS
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Q-86th Company

70-80  
(Feb69)

Unknown

Unit 76  
Q-18  
Tay Giang Co

186 Anh Tung

CC: Tam Kiem  
(25Nov68)

PO: Nguyen Van Trinh  
(25Nov68)

PO: Huynh Thi Thai  
(25Nov68)

APC: Hoang Le Nhat  
(25Nov68)

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ENCLOSURE (2)

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a. Area of Operation. H-3 and its subordinate companies are Local Forces of Hoa Vang District; however, the area of operations includes Hieu Duc District. The Q-84th Company has been the only element of H-3 known to have come in contact with FVMAF. Information on H-3 Headquarters is sketchy and incomplete. In fact, documentation of its formation is relatively recent. It is reported that their permanent base camp is in eastern Hieu Duc District due to allied pressure to the East.

## b. Movements.

- (1) H-3 Headquarters (NFI).
- (2) Q-84th Company.

<u>DATE</u>	<u>LOCATION</u>
2 May 68	ZC 195710
1 Jun 68	ZC 195710
10Sept68	AT 880705
14Feb69	AT 940703
24Feb69	AT 937700

(3) Q-85th and Q-86th Companies. The location of base areas is unknown; however, they and the H-3 Headquarters are believed to be based in eastern Hieu Duc Mountain area.

## c. Logistics.

(1) Weapons and food caches are reported to be expanding in vicinity of H-3 Headquarters. One PW from the Q-84th Company reports a large weapons cache located in vicinity of (AT 8165).

(2) A PW captured during the last encounter with the Q-84th Company indicates the company has no serious shortage of weapons or ammunition. The posture of other Hoa Vang forces is not available.

d. Tactics. Hoa Vang forces have been employed as both sappers and guides. These forces have also been utilized for mine laying tasks.

e. Combat Efficiency. The personnel are less motivated than the NVA personnel and, having been forced into the VC ranks, are waiting a chance to rally. The present shortages of food and medicine has caused further unrest within the ranks.

f. COB Comments. Although the strength of the Q-84th Company has been given as 125, their recent losses as result of engagements with FVMAF and sickness indicates a probable strength of 60 personnel.

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REF ID: A66110-30

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INTELLIGENCE REPORTSDAI LOC (D)

## 1. PW and HOI CHANH REPORTS

a. Brightlight: DC XUAN PHONG, Cpl of V-11 Company, 105th Battalion (VC MF Unit). Captured on 7 Feb 69 by Duc Duc (D) units report observing a caucasian in the vicinity of AT 8963. Stated that PW was taken along with two other who later escaped. PW was being taken to a VC District Headquarters in the mountains to the north.

b. PW, PHAM SAT, VC Autonomous Chief, Thai Cam (H), Thanh Son (V), Dien Ban District, vicinity AT 926627 (2 Km west of Hill 55). Captured 111145 Feb 69 by L/3/1 vicinity AT 962677.

c. Hoi Chanh, HA HUYNH DIEN, VC laborer of unit A-3, V221, Quang Da Province. Rallied 21 Feb to 3/26 vicinity AT 825521. Initial interrogation reveals subject mission was to get rice from Loc Thanh (V) vicinity AT 8250. Unit general mission - care for wounded NVA/VC until they have strength for trip to NV. Future mission: Return to base area YC 984414 after FWF operations end in Loc Thanh area and rice is obtained. V-221 composed of a Headquarters section and sections A-1 to A-9; 20% NVA. Last known location of A-3, A-5 and A-9 vicinity YC 984414 (10 Feb) and A-2 vicinity YC 797503 (5 Feb). Base areas: A-2, A-3, A-5 and A-9 same as last known location; A-6 near Rong River vicinity YC 8742. Rest supply routes for his unit are altered due to pressure of FWF operations in area of YC 9841 - must travel west and reach Dai Loc Lowlands. Source also located hospital 76, A-15 hospital, C-4 Transportation Company (strength 60), 2 Infantry Battalions (250-300 men/Bn) and postal station #6 vicinity YC 984414. (Men in infantry battalions said they were resting there). Postal station #4 located YC 798503, station #5 vicinity Buon River - YC 8744, VC jail for ARVN vicinity YC 84315, rocket cache vicinity YC 804495 - Source say 600 NVA/VC there on 5 February 1969.

d. Hoi Chanh, HA HUYNH DIEN, VC Rifleman. A-3 unit, V-221 unit, Quang Nam (P) Headquarters. Rallied on 21/045 Feb vicinity AT 935521. Spot interrogation reveals his unit located vicinity YC 984414 with the mission of providing care to wounded VC/NVA in Quang Da, (P). V-221 unit has 9 sections, A-1 through A-9.

## 2. LOW LEVEL AGENT REPORTS

a. Hoi An Advisory Team on 7 Jan 69, reports one VC Company, strength 120 persons stationed at AT 892605 and AT 902610.

b. Hoi An Advisory Team report of 15 Jan 69, U/I VC Company, strength 120, stationed at AT 898597, AT 899597, and AT 898593 in Loc Chanh.

c. On 16 Jan 69, Dai Loc S-2 Report, 1 VC Company of 1st Regiment

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located (AT 905621, 910620, 991567). Strength 120.

d. 525th MI Group of 17 Jan 69, U/I VC Company of Q-83rd, strength 120, dispersed AT 898596 and AT 905620.

e. On 25 Jan 69, Dai Loc S-2 reported 1 VC Company located at AT 907623, 912618, and 915626. Strength: 120.

f. 525th MI on 26 Jan 69, U/I NVA Battalion of 300 men from 31st Regiment moved from Dong Binh and deployed northwest of Dong and in the mountainous area vicinity AT 856618. An element of this battalion moved to Hoa Hiep and combined with an U/I company of the T-87 Sapper Battalion. Combined elements deployed in the vicinity of AT 895855.

g. 27 Jan 69, Thuong Duc A-109, SF Agent 1007 reported 1 U/I NVA Regiment with 80 laborers carrying food and ammo, moved from Ben Hien vicinity ZG C38574 to vicinity ZG 155560. Recent agent reports indicate Battalion and Regimental size units have been moving from west to east along route vicinity ZG C38574 to An Diem vicinity ZG C85575.

h. ~~Ref~~ An Advisory Team report of 28-30 Jan 69. The Q83 Company, strength 200, dispersed AT 824353, AT 835563 and AT 844546.

i. 28 Jan 69, Thuong Duc A-109, SF Agent 1009 reported an U/I NVA Company located vicinity AT 805545.

j. 28 Jan 69, Thuong Duc A-109, SF Agent 1315 reported two U/I NVA Companies, led by Phan Lao, located vicinity AT 802556.

k. 30 Jan 69, Thuong Duc A-109, SF Agent 1317 reported two U/I NVA Platoons located vicinity ZG 096573. Well used trails in this vicinity indicate possible base area near An Diem.

l. 525th MI Reports on 3 Feb 69 that a 200 man force of the Q83 Dai Loc (D) LF dispersed from Hoa Trung AT 837578 to Nong Lam AT 830573.

m. 03 Feb 69, Thuong Duc A-109 Prospective SF Agent reported one group of NVA (Name: C-27) located vicinity AT 805546.

n. 03 Feb 69, Thuong Duc A-109 SF Agent 1316 reported an U/I NVA Battalion located vic ZG 170570. They came from vicinity of the Song Yang River. F-3 S-2 Comments: The Song Yang River is a primary infiltration route leading into the Thuong Duc's TAOR.

o. 04 Feb 69, Thuong Duc A-109, SF Agent 1157 reported 2 Local Force VC Platoons, commander by Nguyen Ba, located vicinity ZG 189565.

p. 05 Feb 69, Thuong Duc A-109, SF Agent reported approximately 10 VC were KIA or WIA vicinity ZG 193562. Their bodies were evacuated NW at 1500H. Same agent also reported one NVA Platoon located vicinity

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ENCLOSURE (12)



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INTELLIGENCE REPORTSHIEU DUC DISTRICT

## 1. PW and HCE CASUALTY REPORTS

a. PW, NGUYEN HANH, Sgt, of the 8th Bn, 31st Regiment captured 11 Jan 1969 in Happy Valley (coordinates unknown). The 8th Bn operates from Doc May Slope to O Ray Jungle (center mass - AT 8271). Source states the 7th Battalion, 31st Regiment moved to Quang Ngai in Dec 67. One month supply of rice is kept in base area. Source heard that the 575th Rocket Regiment was located on An Dinh (AT 800590). The 141st Regt is allegedly located approximately a four hour walk west of An Dinh.

b. PW's, NGUYEN HANH, NGUYEN XUAN MAI and NGUYEN DUY THANH, captured 11 Jan 69 at (AT 952670) were members of 103rd Bn, 31st Regt. They were told Hq, 31st Regt was at Doc May (AT 8262) and the E. 141 (141st Regt) stay to the south of Doc May (ZC 183624, 190627, 186617 and 192621).

c. PW, NGUYEN THE SONG, NVA Corporal, of the 9th Co, 103rd Bn, 31st Regt captured on 19 Jan 69 by H/2/7 vic (AT 952655) reveals his company base area located along stream vic (AT 832632 to AT 863638), battalion base camp located 1500 meters E of his Company base camp. Regiment Camp located (AT 923630). Ammo is obtained from a resupply 7 days walk west of base camp. PW heard a truck was seen at this point.

d. Hoi Chanh, LE HOC, TRONG HY, TRAN MAT, NGUYEN DINH KHA and NGUYEN THI NGOC rallied on 11 Feb 69 at Cau Chin OP, Dai Loc (D) (AT 866474). They were production workers in the Nong Son area, Thuong Duc (D) vicinity (AT 820565). Quang Nam Sector interrogation report reveals information concerning two main routes into Quang Nam (P) from area South of Ashau Valley. Sources state they passed by the base area of the 141st Regiment (ZC 195595) and saw where a B52 strike hit on 9 Feb 69 approximately 1 Km from the Base Camp. Sources locate caves used as caches in the vicinity of (AT 790585).

e. PW's, PHAM THI HOA (F) and PHAM VIET HOA (M), VC soldier and cell leader, 1st squad, 1st Platoon, HL6 Company (Q84th Co) were captured 14 Feb 69 by K/3/7 vicinity (AT 929672).

PW, PHAM THI HOA (F), captured 14 Feb 69 vicinity (AT 929672) of the HL6 Company reveals that 300 lbs of rice is transported every 3 or 4 days by a 7 or 8 man unit from the Hieu Duc area. Crated ammo is supplied every 15-30 days by a group of montagnards that came from a location approximately 7 days west of the base area (location unknown). They carry no weapons and have no security. The 31st Unit is located 1/2 days march to the west of the company base area and the 575th Unit is about 2 hours walk further to the west. (hearsay).

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f. PW, NGUYEN VAN THANG, NVA Cpl, C-7 Company, 2nd Battalion, 31st Regiment, Central Wing, Group 44 captured 23 Feb vicinity (AT 960748).

g. Hoi Chanh NGUYEN THANH NGO, NVA, PFC of 7th Company, 2nd Battalion, 141st Regiment, 312th Division, Front 44 captured 23 Feb 69 vicinity (AT 937700). Subject stated the base area of the 2nd Battalion was located vicinity (ZC 1959).

h. PW, LE HIEN, NVA, Cook, 8th Company, 9th Battalion, (103rd Bn), 31st Regiment captured 23 Feb 69 vicinity (AT 937700) reveals unit is located vicinity (ZC 150625).

i. PW, CAO VAN MINH, NVA, Soldier, 23rd Company, 31st Regiment captured 23 Feb 69 vicinity (AT 934693) revealed his company, located in vicinity of his place of capture.

j. PW, NGUYEN XUAN MIEN, NVA Sergeant of 17th Mortar Company, 141st Regiment, 312th Division captured 23 Feb 69 vicinity (AT 927667) reveals 30 men were located at place of capture with 2x32mm mortars and 40 rounds.

k. PW, DO JAN KY, NVA PFC, of the 23rd Sapper Company, 31st Regiment captured on 23 Feb 69 vicinity (AT 934693) reveals his unit with 11th Company, 31st Regiment was located vicinity place of capture.

l. PW, NGUYEN XUAN CANH, NVA Pvt, 11th Company, 3rd Battalion, 141st Regiment and Hoi Chanh/NVA NGUYEN THANH NHO, Pvt, 7th Company, 2nd Battalion, 141st Regiment captured/rallied to Hieu Duc PF on 23 Feb 69. Vicinity (AT 934700). Commanding Officer is Major NGUYEN. 101st Regiment is located at Be Khe Mountain (NFI).

m. PW, PHAM QUY NGO, NVA Sgt, G25 Sapper Company, 31st Regiment captured 23 Feb 69 by H/3/11 vicinity (AT 924736). Base area vicinity Nuong River (AT 8166).

n. PW, NGUYEN VAN NGU, NVA PFC, 21st AA Company, 141st Regiment captured 26 Feb 69 vicinity Hill 22. Source heard that his unit and 3rd Battalion, 141st were moving to Hoa Luong (V) (AT 940660).

o. PW, NGUYEN XUAN MAI, NVA PFC, 14th Company, 3rd Battalion, 308th Regiment, 105th Division captured 26 Feb 69 vic (AT 828660) reveals the 308th Regiment is in Dai Loc Jungle area, location unknown.

## 2. LOW LEVEL AGENT REPORTS

a. 1st MI Battalion on 4 Jan 69 reports the 307th NVA Battalion deployed at (AT 833734). Strength over 400.

b. OSI Report of 5 Jan 69. A primary location for deposit of VC/NVA ordnance is in many concrete tunnels around the house of Mr. DONG and Mrs. THU DIEN at Khong My #3 (H) (AT 915678).

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c. 525th MI report of 11 Jan 69: As of 5 Jan 69 two U/I NVA Battalions were deployed at (AT 860678). Strength over 700. Battalion is part of an estimated regiment of reinforcements moving to the area NW of Danang.

d. 3rd CIT on 7-9 Jan 69 reports the 3/31st Regiment moved from NW Hieu Duc (D) in Phuoc Nhan #1 (H) (AT 8966). Strength is 200. Former commander: LAM THANH.

e. 1st MI Battalion on 5 Jan 69 reports U/I Battalion, cooperating with a guerilla company, was observed deployed in tents (AT 850703). Strength is 300. Source observed about 40 tents.

f. Hoi An Advisory Team reports on 8 Jan 69 an NVA Company designated 105 Ten Lua coordinated with two Hoa Hieu (D) MF platoons and stationed at (AT 912695) - AT 915693). Strength is 180 persons.

g. III MAF reports on 9 Jan 69. One (1) NVA Company designated 105 (AK Ten Lua) with two MF VC platoons and 150 coolies. Located vicinity Khuong My #2 (H) (AT 909674).

h. Hoi An Advisory Team reports on 10 Jan 69 an U/I NVA Company, strength 120 men stationed at AT 876702 - AT 904715.

i. 525th MI Group reports on 10 Jan 69 two (2) battalions of the 31st Regiment. The 102nd Battalion was dispersed AT 870705 and AT 885702. Strength is 300 men. The 103rd Battalion was dispersed at AT 890678, AT 890687 and AT 895686.

j. On 12 Jan 69, the 525th MI reported one (1) U/I NVA unit deployed at (AT 827712). Strength is 350. Unit is accompanied by 300 civilians laborers who were deployed east of Mang Chau Mtn.

k. 525th MI report of 14 Jan 69. A meeting of representatives of the Quang Da Special Zone HQ, 31st Regt HQ and Hoa Hieu (D) was conducted in Mang Chau (AT 828675) to discuss attacks against Hieu Duc and Danang. Base area of 31st Regt is vic (AT 790620, AT 810620, AT 790600 and AT 810600). Two (2) U/I platoons of Hoa Hieu LF dispersed (AT 904675 and AT 910680).

l. 525th MI report of 14 Jan 69. U/I force of the 31st Regt, strength of 300, dispersed (AT 900685). Weapons include 122mm rockets. An intelligence recon platoon equipped with B40 rockets and automatic rifles moved to Cam Ne and Bo Ban area.

m. Hoi An Advisory Team report of 14 Jan 69 states the 307th Bn, commanded by QUACH TU HAP, strength 400, stationed at (AT 870690 and AT 876689). One (1) VC platoon, strength 30, stationed at (AT 933719) (Tuy Loan).

n. On 16 Jan 69, Hieu Duc S-2 reports one U/I NVA Battalion joined with another NVA Battalion at AT 866677 and AT 862684.

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o. 525th MI report of 17 Jan 69. U/I civilian labor force of 200 men gathered at AT 8267. Laborers brought food for fifteen days and were to be sent to units operating in the Hieu Duc and Danang area.

p. 1st CIT report. The 102nd Battalion and 103rd NVA Battalions were located at AT 895682 and AT 895675, respectively, on 17 Jan 69 and moved to AT 903706 and AT 903675.

q. OSI Report of 18 Jan 69. On 18 Jan 69, source allegedly served as a laborer for a 62 man NVA Company of the 105th NVA Battalion, bringing 2x122mm rocket launchers, 10x122mm rockets, 3x81mm and 3x60mm mortars with 30 rounds each and 4 baskets of hand grenades from Phuoc Ninh (H) (AT 9067) to Thach Bo (H) (AT 960699). A VC security force took ordnance from laborers for subsequent relocation.

r. Hoi An Advisory Team, 18 Jan 69. Two (2) NVA Bn's strength is 550, stationed at (AT 900658, 895655 and 905659).

s. 525th MI report of 21 Jan 69. (1) A 400 man force from 31st Regt dispersed from AT 905659 to AT 900653 to AT 895655 and to AT 890652.

t. 525th MI report of 21 Jan 69 reveals an element of the 31st Regt (about 5 companies) moved from Trung Son Mtn to Doi Vuc from (AT 870705 to AT 875708 and to AT 877700). Some were wearing ARVN uniforms.

u. 3rd CIT report of 21 Jan 69 reveals the 23rd NVA Regt (NFI) is presently located at AT 8764 but will move to AT 9169 prior to attacking Danang City on the 25th and 26th of Jan along with the R-20th, B-15th (NFI) Battalions and local guerrillas.

v. 525th MI Group on 21 Jan 69 reports an NVA Battalion deployed at AT 872680. Strength 350. Weapons include 122mm rockets. One squad of NVA women accompanied the Battalion.

w. 525th MI Group report on 22 Jan 69. A Quang Da MF Battalion was deployed at AT 843731. Each soldier had two packs of cooked rice every day. A squad of civilians was carrying ammo.

x. Hieu Duc (D) 22 Jan 69. Twenty rockets (140mm) were moved from Mang Chau (AT 934674) and hid at (AT 390682).

y. Hieu Duc Dist S-2 on 22 Jan 69. 2 VC Companies, strength 180, located AT 879706 and AT 886709.

z. 525th MI on 26 Jan 69. A VC unit from the 2nd Bn, 268B Arty Regt deployed vicinity at Binh Thai (AT 874709) and Cao Sung (AT 378700). Strength: 200.

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aa. 525th MI on 28 Jan 69. U/I NVA unit, strength 250, deployed vic (AT 343727).

bb. Roi An advisory Team on 29 Jan 69. One (1) NVA Company of 141st Regt, strength 120, stationed at AT 875709 and AT 875701.

cc. 1st CIT report of 1 Feb 69. On 31 Jan 69 the 103rd NVA Bn was located vic of Khuong My (H) (AT 913683). Strength 200 men.

dd. 525th MI report of 4 Feb 69. (1) The D-7 (NFI) unit of 141st, strength 300, dispersed at AT 349650.

ee. 525th MI report of 4 Feb 69. The 102nd Bn, 31st Regt, strength 300, deployed at Hoa Trung (V) (AT 827767) with an unknown quantity of 122mm rockets.

ff. 1st CIT, 4 Feb 69. On 3 Feb 69 VC held a meeting at An Tan (H) (AT 923703). A Vietnamese civilian from Muong Son (H) worked for VC for two months. Before his release he helped transport about 2000 rounds of 82mm mortar ammo and an unknown number of 840 rockets to the mountain cache near Dong Nghe (AT 3765 and AT 3865).

gg. 525th MI Group on 6 Feb 69 reports that an U/I NVA Bn deployed at (AT 343723), strength 250.

hh. 7 Feb 69. A voluntary informant reported a hospital, previously located at Ha Nha (V) (ZC 209552), had to move to vic ZC 190590 because of airstrikes on 6 Feb.

ii. 525th MI Group reports on 7 Feb 69 a Provincial F Bn was located AT 370725. Strength 350.

jj. 525th MI report of 8 Feb 69. The 102nd, 31st Regt, strength 300, with 100 men from the Northern Wing, dispersed at (AT 835776, 846774, 853730 and 363760). They are equipped with 122mm rockets.

kk. 525th MI on 8 Feb 69 reported U/I company of the 2nd Bn, 368B Arty Regt located at An Nhon (AT 882695). Two U/I companies of 2nd Bn, 268B Arty Regt, strength 200 each dispersed at (AT 890652 and AT 885654). Both units have 122mm rockets, 82mm mortars, 60mm mortars, flame throwers and small arms.

ll. 525th MI Group on 10 Feb 69 reports a civilian labor group, 100 men, led by cadre of Hieu Duc (D) Unit transported an unknown number of 122mm rockets and 82mm mortars from Dong Nghe to Bo Ban #1 (AT 956686). Exact location is unknown.

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mm. 525th MI Group of 11 Feb 69 reports the 103rd Battalion, 31st Regiment, strength 300, dispersed at (AT 851694 and 850700) with flame throwers and rocket launchers. An U/I force of 250 men of 31st Regiment moved from Dong Chau Mountains area to (AT 855685).

nn. 1st CIT report of 16 Feb 69. The 31st Regiment is stationed at (AT 878683, AT 891672 and AT 895665). A battalion, strength 300, is dispersed at these locations.

oo. USNIS, 21 Feb 69. U/I NVA Battalion moved from (AT 925715) to (AT 945735).

pp. National Police, 22 Feb 69. One NVA Artillery Company moving east vicinity (ZC 125670). They had 6 howitzers that were mounted on two-wheeled trailers.

qq. Hoa Vang DIOCC, 25 Feb 69. One VC Battalion is located vicinity (AT 926704) (AT 912709) and (AT 923713) and their headquarters is at (AT 905709). Unit is digging defensive system using rocket launcher to support defensive position.

rr. Hoa Vang DIOCC, 25 Feb 69. U/I VC Battalion located at (AT 924712). Unit was digging a defensive system.

ss. Hoi An Advisory Team report of 26 Feb 69. Elements of the 102nd and 103rd Battalions, 31st Regiment and 200 men of 141st Regiment attacked Hieu Duc (D) Headquarters, Tuy Loan and U.S. Marine Posts in Duong Meo (AT 828692) in a recent operation phase then dispersed in Cao Sung, (AT 8669), Hoi Vuc, Cao Sung #1, and Binh Thai (AT 8769, and AT 8670),

tt. 1st CIT 27 Feb 69. On 17 Feb, the officers of an U/I Regiment held a meeting at Khuong My #4 (AT 915685). Mr NGUYEN QUANG ANH "guide for attacking forces" stated that there were 16,000 NVA/VC fighting men presently in Quang Nam (P).

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INTELLIGENCE REPORTSTHUONG DUC (D)

## 1. LOW LEVEL AGENT REPORTS

- a. Hoi An Advisory Team on 8 Jan 69 reports one NVA Battalion stationed at ZC 084573.
- b. Hoi An Advisory Team report of 12 Jan 69 that an U/I VC MF unit commanded by Le Hung My dispersed at ZC 109562 and ZC 114562.
- c. 27 Jan, Thuong Duc A-109, agent report, one U/I regiment, located vicinity ZC 075583.
- d. 28 Jan, Thuong Duc A-109, SF Agent 1317 reported an U/I Regiment located vicinity ZC 046510 and one U/I Battalion located vicinity ZC 143495. 28 Jan 69, Thuong Duc A-109, FAC report a trail vicinity (ZC 056576) shows recent heavy foot traffic leading into a grove of trees. Also reported, a small plot of land has been cleared for cultivation vicinity (ZC 058569).
- e. 30 Jan 69, Thuong Duc A-109, SF Agent 1157 reported one NVA Squad located vicinity ZC 192563.
- f. 31 Jan 69, Thuong Duc A-109, SF Agent 1162 reported 1 NVA Battalion, strength 300 men, with 40 laborers carrying food vicinity ZC 075577.
- g. 02 Feb 69, Thuong Duc A-109, SF Agent 1157 reported two Local Force VC Squads, located vicinity ZC 173545. Mission: Cross river into Duc Dong and pick up rice from villages.
- h. 02 Feb 69, Thuong Duc A-109, SF Agent 1158 reported one U/I NVA Regiment located vicinity ZC 185585. Mission: To lay telephone wire and prepare for a major battle. On 28 Jan, FAC reported a trail vicinity ZC 056676 shows heavy foot traffic leading into a grove of trees. Other trails within the general vicinity shows continuous foot traffic.
- i. 02 Feb 69, Thuong Duc A-109, SF Agent 1349 reported one local guerrilla platoon located vicinity ZC 194558.
- j. 03 Feb 69, SF Agent reported 10 local guerrillas, led by (BAN) equipped with small arms and mines located vicinity ZC 128556.
- k. 04 Feb 69, Thuong Duc A-109, Prospective SF agent reported 1 Local Force VC Platoon, commanded by HET, located vicinity ZC 187545. F-3 S-2 OB Comment: Het previously reported on 15 January as a guide vicinity ZC 175546; On 23 Jan, 100 laborers led by 3 NVA cadre carried

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rice from vicinity ZC 211554 to vicinity AT 790568.

l. 04 Feb 69, Thuong Duc A-109, SF Agent 1317 reported one U/I NVA Regiment with 50 laborers moved to Ben Hien vicinity ZC 027572.

m. 06 Feb 69, Thuong Duc A-109, FAC reported the following sightings: BDA of ARC LIGHT vicinity ZC 047522 revealed a tunnel complex broken open in several places: trail running to An Diem vicinity ZC 066576 has since been used by 30-40 people; cave on well used trail vicinity ZC 216566; fresh dirt at trail intersection vicinity ZC 185575, appears to be a trench beside the trail.

n. 06 Feb 69, Thuong Duc A-109, SF Agent 1317 reported two U/I NVA Companies led by Tra Quang Tam, Nguyen Huyen Ba and Chau Doc located vicinity ZC 113563 and ZC 138558.

o. 19 Feb 69, Thuong Duc A-109, FAC observed a (new) trail around old damaged bunkers vicinity ZC 063577, a trail showing heavy usage in cultivated field covered with firewood and cut bamboo vicinity ZC 100578. Also several bunkers and 1 cave with heavily used trail between them vicinity ZC 176611.

p. 19 Feb 69, Thuong Duc A-109, Prospective SF Agent reported one LF VC Company moved from vicinity ZC 084574 to Chan Son vicinity ZC 145549.

q. 20 Feb, Thuong Duc A-109, SF Agent, 1049 reported one U/I NVA Company with local VC located vicinity ZC 193559 to ZC 209554. They made people stay off road and walk along river bank. The soldiers (VC/NVA) were digging holes and trenches in the area.

r. 22 Feb 69, Thuong Duc A-109, Photo mission flown at 150645Z revealed a fortified area with approximately 15 foxholes in wooded area vicinity ZC 087576.

s. 22 Feb 69, Thuong Duc A-109, SF Agent reported that the NVA, in order to avoid USMC operation, vicinity ZC 045443, moved to vicinity ZC 097635 and ZC 075645. Additionally the USMC operation earlier this month halted just before coming to a VC prison camp located AT 793603.

t. 23 Feb 69, Thuong Duc A-109, SF Agent 1157 reported one NVA Company equipped with one 82mm mortar, several B-40's and S/A's moved from An Dinh vicinity ZC 085575 to vicinity ZC 205555.

u. 23 Feb 69, Thuong Duc A-109, SF Agent 1007 reported one NVA Regiment equipped with several heavy weapons, 82mm mortars and heavy ML's. Location: ZC 035575.

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MOVEMENT AND SIGHTINGS

January - March 1969

<u>DTG</u>	<u># ENEMY</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>DIR</u>
171500H	12 NVA	MF 6	AT 879629	NW
171330H	6-10 NVA	AO W/1-7	AT 881627	W
200830H	4 NVA	M/377	AT 925675	E
200900H	3 NVA	K/377	AT 930632	
202200H	3 NVA	M/377	AT 921668	
211800H	2 NVA	MF 7	ZC 087717	
211925H	7 NVA	Wagon Team	AT 829349	W
220445H	12 NVA	B/377	AT 876622	
221555H	4 NVA	Wagon Team	AT 810580	
231730H	4-5 NVA	Postal Chest	AT 818779	S
241940H	15 NVA	M/377	AT 921677	W
251315H	13 NVA	M/377	AT 917637	
260230H	12 NVA	CAP 2-1-6	AT 891677	N
260700H	3 NVA	K/377	AT 917637	W
270700H	10 NVA	E/277	AT 922630	W
281823H	2-300	77	AT 8455	W
300900H	3 NVA	Engine Store	AT 837631	E
311900H	6 NVA	M/377	AT 893701	NW
FEBRUARY 1969				
010730H	15 NVA	Veggie Bunk	ZC 018523	S
011135H	16 NVA	Veggie Bunk	ZC 021526	S
030910H	30 NVA	Clay Pige	AT 814620	
031900H	200 NVA	B/377	AT 878576	
031110H	5 NVA	M/377 Bunk	AT 791648	S
031330H	6 NVA	CP-15	AT 792592	
051030H	5 NVA	Shawling Mig	ZC 015521	S
051205H	3 NVA	Shawling Mig	ZC 019522	
051315H	4 NVA	Shawling Mig	ZC 019522	S

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<u>DTG</u>	<u># ENEMY</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>DIR</u>
060720H	5 NVA	Rudder	ZC 018528	SW
060725H	5 NVA	Rudder	ZC 021523	S
060725H	5 NVA	Gunsmoke	AT 814547	
061530H	6 NVA	Lunga Point	ZC 103591	W
070845H	20 NVA	Gunsmoke	AT 807568	N
070955H	5 NVA	Gunsmoke	AT 803573	
071040H	5 NVA	Gunsmoke	AT 818565	N
071130H	15 NVA	CP-10	AT 795580	
071930H	150 NVA	7th Marines	AT 940643	E
071615H	5 NVA	I/3/1	AT 933635	
080330H	5 NVA	M/3/7	AT 922668	E
080800H	8 NVA	Gunsmoke	AT 816548	E
100230H	30 NVA	Gunsmoke	AT 825577	
101547H	4 NVA	Gunsmoke	AT 799545	
101410H	50 NVA	Durham "A"	ZC 098669	W
111923H	4 NVA	Gunsmoke	AT 814574	N
121300H	8 NVA	H&S/1/7	AT 883617	E
131240H	3 NVA	H&S/1/7	AT 883627	E
132010H	3 NVA	B/1/26	AT 916659	
132015H	6 NVA	H&S, 7th Marines	AT 869726	
150800H	4 NVA	H&S/1/7	AT 915582	W
150935H	7 NVA	H&S/1/7	AT 916582	W
161530H	3-5 NVA	Fast Day	ZC 115697	S
171730H	5 NVA	L/3/7	AT 898703	S
181135H	3 NVA	Aroma	ZC 137576	SE
182250H	55 NVA	H/2/7	AT 871764	E
192235H	3 NVA	M/3/7	AT 914682	N
191400H	3 NVA	Rice Krispies	AT 821777	NW
211130H	3 NVA	Blance	AT 831630	E
222000H	5 NVA	M/3/7	AT 927667	E
222005H	20 NVA	CAP 2-1-6	AT 909718	
230600H	30 NVA	CP 1/7	AT 869582	
231415H	3 NVA	Detroit	AT 878776	SE
240750H	8-10 NVA	H/2/7	AT 873751	W

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<u>DTG</u>	<u># ENEMY</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>DIR</u>
240650H	3-4 NVA	E/2/7	AT 885746	NE
240840H	5 NVA	Flag Dip	AT 834659	W
242120H	7 NVA	G/2/7	AT 904718	
240845H	5 NVA	Flag Dip	AT 834659	E
251040H	6-10 NVA	G/2/7	AT 902729	SW
262145H	5-10 NVA	A/1/7	AT 915724	S
260125H	4 NVA	B/1/7	AT 834554	W
270505H	10 NVA	B/1/7	AT 834560	
271030H	5 NVA	Texas Pete	AT 817649	E
271945H	30 NVA	Take Out	AT 815547	SW
280830H	20 NVA	1/7 CP	AT 877627	E
281100H	15 NVA	Take Out	AT 791548	
281500H	13 NVA	Take Out	AT 791548	
MARCH 1969				
010530H	3 NVA	Texas Pete	AT 802649	
011940H	6 NVA	E/2/26	AT 885756	
020900H	5 NVA	Take Out	AT 813543	S
021200H	3 NVA	Big Lap	AT 796658	
021500H	20 NVA	Big Flower	ZC 201601	
022120H	10 NVA	M/3/7	AT 924668	E
030940H	5 NVA	Take Out	AT 791547	
042015H	20-25 NVA	M/3/7	AT 920675	E
041844H	4 NVA	D/1/7	AT 920675	S
050645H	11 NVA	Take Out	AT 824548	S
050740H	6 NVA	Big Flower	ZC 207559	N
050800H	5 NVA	B/1/7	AT 883627	
051140H	12 NVA	Take Out	AT 795554	W
051140H	15-20 NVA	Take Out	ZC 200557	W

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INCIDENTS1 January - 5 March 1969

<u>DTG</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>TYPE INCIDENT</u>
021000H	B/1/7	AT 804545	Booby Trap
021515H	B/1/7	AT 846556	Light Contact
021920H	B/1/7	AT 838555	Heavy Contact
032105H	D/1/7	AT 899585	Light Contact
032105H	D/1/7	AT 899585	Light Contact
040305H	C/1/7	AT 856649	Light Contact
042045H	B/1/7	AT 850570	Light Contact
042300H	B/1/7	AT 866572	Light Contact
050800H	B/1/7	AT 845562	Light Contact
051415H	B/1/7	AT 838558	Light Contact
051626H	B/1/7	AT 883585	Booby Trap
051835H	B/1/7	AT 874567	Light Contact
052100H	M/3/7	AT 919679	Light Contact
051905H	CAP 2-1-4	AT 943684	Light Contact
061700H	B/1/7	AT 842562	Light Contact
061635H	C/1/7	AT 902582	Booby Trap
061745H	C/1/7	AT 902582	Booby Trap
071100H	C/1/7	AT 901591	Booby Trap
071300H	B/1/7	AT 834557	Light Contact
072114H	B/1/7	AT 862575	Light Contact
081330H	L/3/7	AT 88870	Light Contact
081600H	M/3/7	AT 925675	Booby Trap
090730H	AF PAC	AT 848549	Light Contact
091430H	B/1/7	AT 839560	Light Contact
092235H	94th PF Pkt	AT 885574	Heavy Contact
092300H	B/1/7	AT 805574	Light Contact
100430H	B/1/7	AT 866573	Light Contact
101930H	B/1/7	AT 866574	Light Contact
102145H	B/1/7	AT 876587	Light Contact
110005H	B/1/7	AT 901599	Heavy Contact
110145H	B/1/7	AT 865575	Heavy Contact
111900H	B/1/7	AT 850571	Light Contact
120800H	B/1/7	AT 879572	Light Contact
121255H	B/1/7	AT 885563	Light Contact

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<u>DTG</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>TYPE INCIDENT</u>
121200H	Rabbit Hoosh	AT 823572	Booby Trap
121445H	B/1/7	AT 834564	Light Contact
131130H	HeLo	AT 835554	Heavy Contact
131330H	B/1/7	AT 833561	Light Contact
131700H	A/C	AT 815570	Light Contact
132001H	M/3/7	AT 920675	Light Contact
132015H	B/1/7	AT 841362	Mortar
140200H	M/3/7	AT 923670	Light Contact
141730H	D/1/1	AT 903599	Heavy Contact
141245H	B/1/7	AT 822551	Light Contact
141936H	K/3/7	AT 935649	Heavy Contact
142030H	K/3/7	AT 920675	Light Contact
142015H	B/1/7	AT 847554	Light Contact
141455H	C/1/7	AT 904598	Booby Trap
151400H	L/3/7	AT 895697	Booby Trap
151500H	L/3/7	AT 891697	Booby Trap
151620H	C/1/7	AT 909588	Light Contact
152034H	B/1/7	AT 866573	Heavy Contact
161040H	B/1/7	AT 828571	Light Contact
170845H	D/1/5	AT 795560	Light Contact
172225H	Timber Day Hq	ZC 145540	Light Contact
181435H	B/1/7	AT 831653	Light Contact
181900H	L/3/7	AT 898697	Booby Trap
191230H	B/1/7	AT 864573	Light Contact
191630H	B/1/7	AT 836554	Light Contact
191740H	L/3/7	AT 898699	Booby Trap
191910H	B/1/7	AT 842562	Light Contact
200530H	CAP 20204	AT 869574	Mortars
200810H	M/3/7	AT 925675	Light Contact
201200H	Wage Earners	AT 791541	Light Contact
201450H	B/1/5	AT 878576	Light Contact
201655H	B/1/7	AT 833567	Light Contact
202200H	M/3/7	AT 920675	Light Contact
202230H	G/2/7	AT 904718	Light Contact
200900H	K/3/7	AT 930632	Light Contact
212320H	B/1/7	AT 878567	Mortar
212245H	G/2/7	AT 900715	Light Contact
220445H	B/1/7	AT 876622	Light Contact
220900H	Clay Pipe	ZC 207705	Light Contact
221535H	Wage Earners	AT 810550	Light Contact

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<u>DTG</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>TYPE INCIDENT</u>
221045H	L/3/7	AT 896696	Booby Trap
221000H	L/3/7	AT 926679	Booby Trap
220930H	L/3/7	AT 896698	Booby Trap
230500H	Clay Pipe	ZC 206707	Light Contact
231410H	Sea Side	ZC 104736	Light Contact
231055H	Sea Side	ZC 119719	Light Contact
240005H	M/3/7	AT 942677	Light Contact
240300H	Clay Pipe	ZC 195705	Light Contact
241940H	M/3/7	AT 921677	Light Contact
251515H	M/3/7	AT 917637	Light Contact
251735H	B/1/7	AT 831567	Heavy Contact
260230H	CAP 2-1-6	AT 896772	Light Contact
260700H	K/3/7	AT 917637	Light Contact
262200H	L/3/7	AT 913705	Booby Trap
261645H	Clay Pipe	ZC 205705	Light Contact
262005H	Clay Pipe	ZC 210705	Heavy Contact
262050H	3rd PF	ZC 153540	Light Contact
270700H	H/3/7	AT 922636	Heavy Contact
281130H	E/2/26	AT 844559	Light Contact
292030H	L/3/7	AT 943683	Light Contact
290730H	94th HF Plt	AT 845591	Light Contact
300930H	L/3/7	AT 896705	Booby Trap
301215H	G/2/7	AT 889709	Booby Trap
302515H	1st FLT	AT 944683	Light Contact
310930H	K/3/7	AT 918637	Light Contact
312144H	M/3/7	AT 927674	Light Contact

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012130H	M/3/7	AT 925683	Light Contact
010910H	A-107	ZC 193565	Light Contact
031610H	L/3/7	AT 895704	Booby Trap
040930H	CIDG	ZC 140530	Light Contact
050020H	G/2/7	AT 902713	Light Contact
060900H	G/2/7	AT 890715	Booby Trap

ENCLOSURE (16)

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<u>DTG</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>TYPE INCIDENT</u>
061115H	Gunsmaoke	AT 795540	Heavy Contact
061515H	Ice Bound	ZC 041520	Heavy Contact
061155H	Gunsmaoke	AT 795540	Light Contact
061530H	Lunga Point	ZC 103591	Light Contact
062100H	137th FF	ZC 146540	Heavy Contact
070955H	L/3/7	AT 921707	Booby Trap
070920H	2/7	AT 872735	Mine
071430H	B/1/7	AT 798570	Booby Trap
071730H	B/1/7	AT 805555	Heavy Contact
080330H	M/3/7	AT 922668	Light Contact
080945H	H/2/7	AT 870733	Mine
081400H	M/3/7	AT 915664	Light Contact
090915H	H/2/7	AT 8466560	Heavy Contact
091730H	G/2/7	AT 892715	Booby Trap
091500H	M/3/7	AT 916671	Booby Trap
100830H	H/2/7	AT 874744	Booby Trap
101530H	L/3/7	AT 897754	Booby Trap
111035H	GAP 2-2-4	AT 845573	Heavy Contact
111115H	B/1/7	AT 867573	Light Contact
111030H	GAP 2-2-4	AT 843573	Heavy Contact
111330H	B/1/7	AT 845552	Light Contact
111940H	L/3/7	AT 914693	Booby Trap
111030H	GAP 2-2-4	AT 893589	Light Contact
120950H	G/2/7	AT 905715	Booby Trap
121410H	L/3/7	AT 873736	Mine
121745H	B/1/7	AT 835561	Light Contact
121735H	M/3/7	AT 917684	Booby Trap
121845H	L/3/25	AT 868598	Light Contact
131145H	L/3/7	AT 907704	Booby Trap
132015H	H&S/1/7	AT 869726	Light Contact
132100H	M/3/7	AT 918682	Light Contact
132333H	B/1/26	AT 901634	Light Contact
132110H	Durham "A"	ZC 036667	Light Contact
141415H	G/2/7	AT 887715	Light Contact
141500H	H/2/7	AT 876725	Light Contact
150053H	B/1/7	AT 888592	Light Contact
161950H	B/1/7	AT 886580	Light Contact
162345H	B/1/7	AT 899571	Heavy Contact

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<u>DTG</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>TYPE INCIDENT</u>
171730H	L/3/7	AT 898703	Light Contact
172315H	15th PF Plt	ZG 156549	Light Contact
180630H	Dal Loo Hq	AT 882563	Light Contact
180842H	B/1/7	AT 834567	Light Contact
180842H	E/1/7	AT 831560	Light Contact
182250H	B/1/7	AT 879566	Light Contact
190840H	G/2/7	AT 889709	Booby Trap
190845H	G/2/7	AT 881718	Booby Trap
191400H	Rice Knapies	AT 821777	Light Contact
191420H	M/3/7	AT 929672	Booby Trap
191612H	G/2/7	AT 870722	Light Contact
192215H	M/3/7	AT 914682	Light Contact
201020H	H/2/7	AT 873738	Mine
201230H	H/2/7	AT 871723	Light Contact
201630H	M/3/7	AT 871729	Booby Trap
210250H	B/1/7	AT 889571	Light Contact
210315H	B/1/7	AT 888588	Light Contact
210550H	B/1/7	AT 829559	Light Contact
211130H	Blanco	AT 831630	Light Contact
211320H	G/2/7	AT 878713	Booby Trap
210240H	24th PF Plt	AT 888574	Light Contact
221015H	Flag Dtp	AT 837659	Light Contact
221830H	M/3/7	AT 908693	Booby Trap
222000H	GAP 2-1-6	AT 904718	Light Contact
222100H	GAP 2-1-6	AT 909719	Heavy Contact
230100H	HILL CP	AT 881581	Mortars
230130H	M/3/7	AT 909680	Light Contact
230220H	E/2/7	AT 884774	Mortars
230500H	1/7 CP	AT 869582	Light Contact
230900H	C Co 1st Bgt	AT 903744	Heavy Contact
230950H	G/2/7	AT 905743	Light Contact
231150H	11th Mac	AT 910745	Heavy Contact
231240H	L/3/7	AT 909688	Booby Trap
231430H	L/3/7	AT 900704	Heavy Contact
231520H	G/2/7	AT 8974	Heavy Contact
231550H	GAP 2-2-2	AT 934693	Light Contact
240645H	E/2/7	AT 885746	Heavy Contact
200720H	L/3/7	AT 903684	Heavy Contact
240750H	H/2/7	AT 873751	Heavy Contact
240840H	Flag Dtp	AT 834659	Light Contact
240840H	Flag Dtp	AT 834659	Light Contact

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<u>DTG</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>TYPE INCIDENT</u>
240900H	L/3/7	AT 901692	Heavy Contact
240900H	L/3/7	AT 902704	Heavy Contact
241316H	GAP 2-1-1	AT 925720	Heavy Contact
241600H	L/3/7	AT 900705	Mortars
241700H	A/1/7	AT 904709	Heavy Contact
241850H	3/7 CP	AT 923697	Mortars
242000H	G/2/7	AT 880587	Light Contact
242030H	K/3/7	AT 933652	Heavy Contact
242120H	G/2/7	AT 904718	Light Contact
242135H	G/2/7	AT 904718	Heavy Contact
250735H	A/1/7	AT 924607	Light Contact
250745H	C Co, 1st Engr	AT 907576	Booby Trap
250750H	C Co, 1st Engr	AT 902571	Booby Trap
250845H	G/2/7	AT 906736	Mortars
250930H	Fag Dip	AT 834659	Light Contact
251015H	3/7 OP	AT 907658	Mortars
251200H	L/3/7	AT 898704	Light Contact
251630H	A/1/7	AT 923718	Heavy Contact
260115H	B/1/7	AT 834554	Light Contact
260300H	145th HF Plt	ZC 146530	Light Contact
260425H	G/1/7	AT 878576	Light Contact
260800H	466th HF Co	AT 929701	Mortars
260945H	Latin Rebel	ZC 195648	Light Contact
270125H	B/1/7	AT 865573	Light Contact
270505H	B/1/7	AT 834560	Light Contact
270745H	G Co, 1st Engr	AT 899570	Booby Trap
270755H	K/3/7	AT 916658	Mortars
281215H	C/1/7	AT 912638	Light Contact
281645H	A/1/7	AT 890708	Light Contact
282045H	H/2/7	AT 876754	Light Contact
282050H	A/1/7	AT 906743	Light Contact
282300H	G/2/7	AT 908743	Light Contact
MARCH 1969			
010530H	Texas Pete	AT 802649	Light Contact
011100H	A/1/7	AT 925625	Booby Trap
011250H	G/2/7	AT 905743	Light Contact
011900H	E/2/26	AT 884757	Light Contact
012030H	G/2/26	AT 882787	Light Contact
012145H	E/2/26	AT 881754	Light Contact

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<u>DTG</u>	<u>UNIT</u>	<u>COORDINATES</u>	<u>TYPE INCIDENT</u>
020900H	G/2/7	AT 908746	Light Contact
020845H	B/1/7	AT 834560	Light Contact
021105H	G/2/7	AT 903740	Heavy Contact
021225H	B/1/7	AT 892583	Booby Trap
021225H	G/2/7	AT 904718	Mortars
020900H	Take Out	AT 813543	Light Contact
021150H	G/2/7	AT 900738	Heavy Contact
021515H	H/2/7	AT 895736	Light Contact
022120H	M/3/7	AT 924668	Light Contact
021200H	Burlap	AT 796658	Light Contact
021500H	Big Flower	ZC 201601	Heavy Contact
030100H	3/7	AT 925678	Mortars
031300H	H&S/3/7	AT 925690	Light Contact
031200H	M/3/5	ZC 105531	Light Contact
031540H	H&S/3/7	AT 913663	Light Contact
031610H	H&S/1/7	AT 935638	Light Contact
032125H	B/1/7	AT 891570	Light Contact
031430H	Big Flower	ZC 204595	Light Contact
031445H	Big Flower	ZC 216593	Light Contact
040405H	G/2/7	AT 905709	Mortars
040815H	B/1/7	AT 823552	Light Contact
041020H	B/1/7	AT 822552	Light Contact
040720H	Big Flower	ZC 205591	Light Contact
041115H	M/3/7	AT 924670	Booby Trap
042220H	B/1/7	AT 864573	Light Contact
051240H	B/1/7	AT 799563	Booby Trap
051900H	B/1/7	AT 824567	Light Contact
052230H	CAP 2-8-1	AT 897777	Booby Trap

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FORTIFICATIONS

<u>GRID</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>AT79</u> AT791640	1 F/H, 1 BUNKER	3Feb69
<u>AT80</u> AT803603 AT802648	6x10 BAMBOO HOOTCH 3 BUNKERS, 81MM PITS	.... ....
<u>AT81</u> AT812603 AT812618 AT812616 AT811665 AT811759	3 BUNKERS 20 F/H'S, RMFD BUNKERS W/F/H'S HOOTCH FOOTMINE ANTI/PERSONNEL MINE	.... .... 17Nov68 5Jan69 ....
<u>AT82</u> AT821600 AT823646 AT820667 AT822671 AT822671 AT822686 AT822684 AT822733 AT823756	13 U/G BUNKERS 3 F/H'S, 1 M.G. HOLE H/S, CO SIZE NUMEROUS F/H'S, IMPROVISED SHELTERS, B.C. 7 F/H'S CAVE RMF CNTR, CAVE, 2 5x8 RMFD. BUNKERS POSS. 60MM PORT. POSIT. 11 F/H	.... .... 5Jan69 14Nov68 1Dec68 .... 6Nov68 25Jan68 3Nov68
<u>AT83</u> AT830605 AT837613 AT833617 AT835618 AT834612 AT834650 AT831643 AT830648 AT839645 AT833657 AT835725 AT835726 AT832741	7 U/G BUNKERS 10 F/H'S 20 BUNKERS 1 AA/POSIT 1 HUT, 14 U/G BUNKERS, 198 F/H'S POSS HARBOR SITE 1 PUNJI PIT OLD PUNJI PIT FOOT BRIDGE A/A SITE 25 F/H'S 50 F/H'S, 10 SHELTERS 2 H/S	18Dec68 .... .... .... .... .... .... .... .... .... .... 16Dec68 20Dec68 5Jan69
<u>AT84</u> AT842673 AT840639 AT845634 AT846707 AT846727	ROCKET SITE CO. SIZE B.C. U/G ENT. 17 F/H'S WOODEN BRIDGE	21Nov68 27Nov68 .... 5Nov68 2Jan69

Note: Legend on page VIII-17-5

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ENCLOSURE (17)

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FORTIFICATIONS

<u>GRID</u>	<u>DESCRIPTION</u>	<u>DATE</u>
AT044723	2 HOOTHOLDS	21Jan60
AT044735	20 F/H'S, 5-2 TAN F/H'S, 5 M.C. & HOOTHOLDS	3Jan60
AT044769	2 F/H'S	....
<u>AT05</u>		
AT051611	S.T.	....
AT055664	BUNKER	....
AT050664	PARK BUNKERS	20Nov63
AT059671	6 BUNKERS, 2 F/H'S, 2 HOOTHOLDS	....
AT053765	3 U/G BUNKER, 1 BUNKER	1Dec63
<u>AT06</u>		
AT061678	9 BUNKERS & 3 F/H'S	....
AT065632	26 F/H'S	....
AT868703	60 TAN H/S, 1/11 LG TUNNELS	....
<u>AT07</u>		
AT073626	2 AA/AM TOWER	19Dec63
AT077624	2 AA/AM TOWER	....
AT076665	1 CAVES & 6 BUNKERS	25Jan69
AT073699	BUNKER	27Dec63
AT071732	10 F/H'S	2Dec63
<u>AT08</u>		
AT086666	DOOBY TRAF	20Jan69
AT082634	1 AA/AM TOWER	....
AT081639	POSS ROCKET SITE	....
AT083687	30 F/H'S	....
AT082601	AA/POST	....
AT083634	12 F/H'S	....
AT083709	A/A SITE, TRENCH LINE, TUNNELS	12Jan69
AT083714	2 U/G BUNKERS	19Jan69
AT086714	1 HUT, 3 F/H'S	....
AT089761	14 F/H'S ON HILL	26Oct63

ENCLOSURE (17)

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FORTIFICATIONS

<u>GRID</u>	<u>DESCRIPTION</u>	<u>DATE</u>
ZC00 ZC004576	3 POSS. CAVE ENTRANCES	....
ZC02 ZC024669	FOOTBRIDGE	....
ZC03 ZC031672	FOOTBRIDGE, AND TRAIL ACTIVITY	....
ZC05 ZC053577	BUNKER, 3 MALAY WHIP BOOBY TRAP	....
ZC06 ZC061568	CAMO BRIDGE, 7' OFF WATER	....
ZC067574	HOOTCH W/TUNNEL & BOMB SHELTER	....
ZC064579	3 HOOTCHES	....
ZC068575	2 HOOTCHES	....
ZC064678	PLATFORM SIZE H/S	....
ZC063682	1 F/ , 1 BUNKER, (3) CAM) HUTS	....
ZC07 ZC073583	4 HOOTCHES, 4 BUNKERS	....
ZC073583	OLD RICE STORAGE	....
ZC075577	HOOTCH, BUNKER, TRENCHLINE	....
ZC072574	5 HOOTCHES, 7 BUNKERS	....
ZC072575	4 HOOTCHES, 4 BUNKERS	....
ZC08 ZC083573	Co. QZ, 15 BUNKERS	....
ZC087691	AID STATION, HOOTCH, 2 TUNNELS	....
ZC09 ZC098515	8 CAVES/TUNNEL ENTRANCES	26Dec68
ZC091561	GRAVE, LOW FENCE	....
ZC099649	RICE STORAGE HOOTCH	....
ZC094660	2 STRAND CABLE CROSSING	....
ZC093685	HOOTCH, TUNNEL	....
ZC098697	TUNNEL COMPLEX, AMMO BINS	....
ZC093702	HEAVY BOOBY TRAPS	....
ZC11 ZC115590	30F/H'S	....

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ENCLOSURE (17)

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FORTIFICATION SITES

<u>GRID</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>ZC12</u>		
ZC125533	1 AA/AV POSIT	.....
ZC129591	40 F/H'S	.....
ZC123594	3 F/H'S, 1 DEAF TO	.....
ZC122594	25 F/H'S & STRUCTURES	.....
ZC123651	AREA FULL OF PUNJI PITS	.....
ZC129714	EMERGENCY, 3 CAVES	.....
ZC123742	2 TROOPERS W/F/H'S	.....
ZC125752	3 CAVES	.....
<u>ZC13</u>		
ZC137539	1 AA/AV POSIT	2Dec67
ZC138591	12 F/H'S	23Nov68
ZC133572	15 U/G BUNKERS	2Dec68
ZC136636	2' HIGH FENCE MADE OF STICKS	.....
ZC133572	25 TROOPERS, 2 TUNNELS, 1 CAVE	18Jan69
ZC135674	2 MAN F/H	.....
<u>ZC14</u>		
ZC144572	1 AA/AV POSIT	.....
ZC140530	BUNKERS	26Dec68
ZC144577	B.C. 8kg BUNKERS, 25 F/H'S	26Oct68
ZC144537	15 F/H'S	2Dec68
<u>ZC15</u>		
ZC153540	1 AA/POSIT	3Nov68
ZC153530	15 F/H'S	20Nov68
ZC155582	1 Mort POSIT, 6 CAVE ENT.	.....
ZC150649	CAVE	14Jan69
ZC155674	PUNJI PIT 7x3x7	14Jan69
ZC156717	BOOBY TRAPPED LZ	.....
<u>ZC16</u>		
ZC167559	MORT. POSIT.	.....
ZC166563	1 AA/POSIT	17Nov68
ZC163564	54 F/H, 2AA/AV POSIT	17Nov68
ZC164562	40 F/H, 2AA/AV POSIT	17Nov68
<u>ZC17</u>		
ZC177557	7 ROCKET POSIT. 4 U/G BUNKERS	17Nov68
ZC175560	1 AA/AV POSIT	17Nov68
ZC175561	3 AA/AV POSIT	17Jan69
<u>ZC18</u>		
ZC183638	10 SMALL BOMB SHELTERS	5Nov68

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ENCLOSURE (17)

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FORTIFICATIONS

<u>GRID</u>	<u>DESCRIPTION</u>	<u>DATE</u>
<u>EC19</u>		
EC195560	50 F/H's	5Nov68
EC193567	3 UNOCC AA/AV POSIT W/TRENCHES	.....
EC191565	2 UNOCC AA/AV POSIT	17Nov68
EC196561	60 F/H's, 10 BUNKERS, 2 POSIT, MORT. POSIT	19Dec68
EC193642	Bn. SIZE H/S	.....
EC192637	UNFINISHED BUNKERS	.....
EC198635	2 BN SIZE H/S	.....
EC198592	FORTIFIED BUNKER	.....
<u>EC20</u>		
EC200560	40 F/H's, 20 U/G BUNKERS, 10 A/G BUNKERS	.....
EC205586	H/S	.....
EC204645	CAVE	.....
EC209647	HOOCH & CAVE, BUNKER	.....

LEGEND:

- F/H - FOXHOLES
- H/S - HOOCHES
- REFD - REINFORCED
- U/G - UNDERGROUND
- A/G - ABOVEGROUND

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ENCLOSURE (17)

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APD

1FEB-5MAR69

GRIDZC03  
038643ZC04  
046642ZC05  
051643  
054645  
054655ZC06  
066647  
062658  
066656  
069661ZC07  
072647  
073652  
079649  
075655  
079655  
075665ZC08  
089644  
082648  
082651  
088654ZC13  
136644  
135648ZC14  
140645  
142648  
148643  
148649GRIDZC15  
154643  
156644ZC16  
160641  
163644  
166647  
167648  
165635ZC17  
171634  
177623  
179662  
175595ZC18  
180583  
183584  
185576  
188579  
186594  
185663  
188663ZC20  
202583  
208675  
208683GRIDAT79  
792683  
798609AT80  
805602  
808608  
805693  
807702AT81  
811699  
813694  
815695  
816697  
817694  
810702  
815704  
816702  
813583AT82  
825575

ENCLOSURE (18)

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SIDE SCANNING AIRBORNE RADAR (SSAR)

1 FEB-5 1969

GRID

0001  
014658 2 MFI  
018670

0006  
067572

0007  
075524

0008  
081576  
080570  
085571

0009  
092740  
090726  
094603

0012  
126720

0013  
132558  
132553  
136546

0014  
141662  
140513

0015  
157512

0016  
160530  
167532  
164530  
169530  
168512

GRID

0018  
187538  
181524  
181520

0020  
000585  
000673

0079  
791676  
799570

0181  
818746  
818573  
813528

0182  
829771  
825739  
824679  
824669  
825591

0183  
838675

0185  
850594

0186  
865743

0187  
875630  
879573

0188  
880576

ENCLOSURE (18)  
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## ANTI - AIRCRAFT INCIDENTS

<u>DATE</u>	<u>COORDINATES</u>	<u>TYPE OF FIRE</u>
2 Jan 69	AT 838555	Intense AW 30/50 Cal
4 Jan 69	AT 924600	Light SA/AW
5 Jan 69	AT 868582	Moderate SA 30 Cal
10 Jan 69	AT 897602	Light SA
11 Jan 69	AT 881563	Light 50 Cal
11 Jan 69	AT 826617	Moderate SA 30 Cal
13 Jan 69	AT 815710	Moderate SA/AW 30 Cal
13 Jan 69	AT 815570	Moderate SA/AW 30/50 Cal
13 Jan 69	AT 835554	Moderate SA/AW 30/50 Cal
13 Jan 69	AT 826553	Moderate SA/AW 30/50 Cal
13 Jan 69	AT 826553	Light SA/AW
13 Jan 69	AT 835554	Light SA/AW
15 Jan 69	AT 935656	Light AW 30 Cal
16 Jan 69	AT 889667	Intense AW
16 Jan 69	AT 889667	Intense AW
17 Jan 69	AT 881647	Moderate SA/AW 30 Cal
17 Jan 69	AT 831647	Moderate SA/AW 30 Cal
17 Jan 69	AT 870620	Light SA/AW 30 Cal
18 Jan 69	AT 870620	Light SA/AW
20 Jan 69	AT 828567	Moderate SA
22 Jan 69	ZC 110650	Moderate SA/AW 30 Cal
22 Jan 69	ZC 110650	Moderate SA/AW 30 Cal
22 Jan 69	ZC 109648	Intense SA/AW 30 Cal
23 Jan 69	ZC 101671	Moderate SA
25 Jan 69	ZC 139679	Moderate SA/AW 30 Cal
25 Jan 69	ZC 143665	Intense SA/AW 30 Cal
25 Jan 69	ZC 143676	Intense SA/AW 30 Cal
26 Jan 69	AT 930689	Light SA
28 Jan 69	AT 848551	Intense SA/AW 30/50 Cal
28 Jan 69	AT 848551	Intense SA/AW 30/50 Cal
30 Jan 69	AT 790704	Moderate SA/AW 30/50 Cal

UNCLASSIFIED

VAIL-19-1

ENCLOSURE (19)

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<u>DATE</u>	<u>COORDINATES</u>	<u>TYPE OF FILE</u>
3 Feb 69	EC 044510	Light SA
6 Feb 69	AT 805660	Moderate SA/AW 30 Cal
6 Feb 69	AT 800544	Moderate SA/AW 30 Cal
6 Feb 69	EC 043508	Moderate SA/AW 30 Cal
8 Feb 69	AT 807555	Intense SA/AW 30/50 Cal
8 Feb 69	AT 807555	Intense SA/AW 30/50 Cal
9 Feb 69	AT 8562	Intense SA 30 Cal
11 Feb 69	AT 821781	Intense SA/AW
11 Feb 69	AT 815778	Intense SA/AW 50 Cal
12 Feb 69	AT 8756	Moderate SA/AW 30 Cal
12 Feb 69	AT 8756	Moderate SA 30 Cal
12 Feb 69	AT 826771	Light SA
12 Feb 69	EC 125594	Intense SA
13 Feb 69	EC 208598	Moderate SA 50 Cal
13 Feb 69	AT 870568	Moderate SA 30 Cal
13 Feb 69	EC 126568	Intense SA/AW
13 Feb 69	AT 803555	Light SA 30 Cal
13 Feb 69	EC 120560	Moderate SA
15 Feb 69	EC 121696	Light SA 30 Cal
16 Feb 69	EC 215590	Intense SA/AW
16 Feb 69	EC 215590	Light SA 30 Cal
16 Feb 69	EC 215590	Moderate SA 30 Cal
17 Feb 69	EC 185575	Moderate SA 30 Cal
22 Feb 69	EC 110660	Light SA
22 Feb 69	AT 890570	Moderate SA 30 Cal
23 Feb 69	AT 9172 & 9272	Light AW 50 Cal
23 Feb 69	AT 898703	Intense SA/AW
23 Feb 69	AT 933701	Intense SA/AW
23 Feb 69	AT 9162	Intense SA/AW 50 Cal
24 Feb 69	AT 911709	Intense SA/AW
24 Feb 69	AT 909686	Intense AW 30 Cal
24 Feb 69	AT 905704	Intense SA/AW 50 Cal
24 Feb 69	AT 915713	Light SA 30 Cal
24 Feb 69	AT 903567	Intense SA/AW 30 Cal
24 Feb 69	AT 911709	Intense SA
25 Feb 69	AT 909688	Intense SA/AW 30 Cal

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ENCLOSURE (19)

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## CONFIDENTIAL

<u>DTG</u>	<u>COORDINATES</u>	<u>TYPE OF FIRE</u>
25 Feb 69	AT 899703	Initial SA/AW 30 Cal
25 Feb 69	AT 935695	Moderate SA/AW 30 Cal
25 Feb 69	ZC 087583	Light SA 30 Cal
26 Feb 69	AT 918707	Moderate SA/AW 30 Cal
26 Feb 69	ZC 194648	Moderate SA 30 Cal
26 Feb 69	ZC 195649	Light SA 30 Cal
26 Feb 69	AT 850590	Intense AW 30/50 Cal
27 Feb 69	AT 828558	Light SA 30 Cal
27 Feb 69	AT 834560	Light SA/AW 30 Cal
27 Feb 69	AT 870594	Light SA/AW 30 Cal
28 Feb 69	AT 864592	Moderate SA
1 Mar 69	AT 802649	Light SA 30 Cal
2 Mar 69	AT 901737	Moderate AW 30 Cal
2 Mar 69	AT 891751	Moderate SA
2 Mar 69	AT 901730	Moderate AW 30 Cal
3 Mar 69	AT 905650	Moderate SA/AW 30 Cal
4 Mar 69	AT 868592	Moderate SA A. 30/50 Cal

UNCLASSIFIED

VIII-19-3

ENCLOSURE (19)